U.S. DEPARTMENT OF THE INTERIOR

OFFICE OF WATER RESEARCH AND TECHNOLOGY
WATER RESOURCES SCIENTIFIC INFORMATION CENTER

SELECTED WATER RESOURCES ABSTRACTS

ANNUAL CUMULATED INDEXES TO V. 10, 1977

PART 2 SUBJECT

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A Semimonthly Publication of the Water Resources Scientific Information Center, Office of Water Research and Technology, U.S. Department of the Interior

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The Secretary of the U.S. Department of the Interior has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through August 31, 1978.

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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FOREWORD

Selected Water Resources Abstracts, a semimonthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. The contents of these documents cover the water-related aspects of the life, physical, and social sciences as well as related engineering and legal aspects of the characteristics, conservation, control, use, or management of water. Each abstract includes a full bibliographical citation and a set of descriptors or identifiers which are listed in the **Water Resources Thesaurus** (Second Edition, 1971). Each abstract entry is classified into ten fields and sixty groups similar to the water resources research categories established by the Committee on Water Resources Research of the Federal Council for Science and Technology.

WRSIC IS NOT PRESENTLY IN A POSITION TO PROVIDE COPIES OF DOCUMENTS ABSTRACTED IN THIS JOURNAL. Sufficient bibliographic information is given to enable readers to order the desired documents from local libraries or other sources.

Selected Water Resources Abstracts is designed to serve the scientific and technical information needs of scientists, engineers, and managers as one of several planned services of the Water Resources Scientific Information Center (WRSIC). The Center was established by the Secretary of the Interior and has been designated by the Federal Council for Science and Technology to serve the water resources community by improving the communication of water-related research results. The Center is pursuing this objective by coordinating and supplementing the existing scientific and technical information activities associated with active research and investigation program in water resources.

To provide WRSIC with input, selected organizations with active water resources research programs are supported as "centers of competence" responsible for selecting, abstracting, and indexing from the current and earlier pertinent literature in specified subject areas.

Additional "centers of competence" have been established in cooperation with the Environmental Protection Agency. A directory of the Centers appears on page iv.

The input from these Centers, and from the 53 Water Resources Research Institutes administered under the Water Resources Research Act of 1964, as well as input from the grantees and contractors of the Office of Water Research and Technology and other Federal water resources agencies with which the Center has agreements becomes the information base from which this journal is, and other information services will be, derived; these services include bibliographies, specialized indexes, literature searches, and state-of-the-art reviews.

Comments and suggestions concerning the contents and arrangements of this bulletin are welcome.

Water Resources Scientific Information Center
Office of Water Research and Technology
U.S. Department of the Interior
Washington, D.C. 20240

CENTERS OF COMPETENCE AND THEIR SUBJECT COVERAGE

- Ground and surface water hydrology at the Illinois State Water Survey.
- Metropolitan water resources planning and management at the Center for Urban and Regional Studies of University of North Carolina.
- Eastern United States water law at the College of Law of the University of Florida.
- Policy models of water resources systems at the Department of Water Resources Engineering of Cornell University.
- Water resources economics at the Water Resources Center of the University of Wisconsin.
- Eutrophication at the Water Resources Center of the University of Wisconsin.
- Water resources of arid lands at the Office of Arid Lands Studies of the University of Arizona.
- Water well construction technology at the National Water Well Association.
- Water-related aspects of nuclear radiation and safety at the Oak Ridge National Laboratory.
- Water resource aspects of the pulp and paper industry at the Institute of Paper Chemistry.

Supported by the Environmental Protection Agency in cooperation with WRSIC

- Effect on water quality of irrigation return flows at the Department of Agricultural Engineering of Colorado State University.
- Agricultural livestock waste at East Central State College, Oklahoma.
- Municipal wastewater treatment technology at the Franklin Institute Research Laboratories.

A NOTE ON THE INDEXES . . .

This cumulation is an index of SUBJECTS appearing in the 1977 issues of SELECTED WATER RESOURCES ABSTRACTS. A table is provided below to facilitate the location of abstracts.

Inclusive Abstract Numbers	will be found in	**Issue Number and Date**	
W77-00001—W77-00525	"	**1**	January 1, 1977
W77-00526—W77-01050	"	**2**	January 15,1977
W77-01051—W77-01550	"	**3**	February 1, 1977
W77-01551—W77-02075	"	**4**	February 15, 1977
W77-02076—W77-02575	"	**5**	March 1, 1977
W77-02576—W77-03075	"	**6**	March 15, 1977
W77-03076—W77-03600	"	**7**	April 1, 1977
W77-03601—W77-04100	"	**8**	April 15, 1977
W77-04101—W77-04600	"	**9**	May 1, 1977
W77-04601—W77-05100	"	**10**	May 15, 1977
W77-05101—W77-05600	"	**11**	June 1, 1977
W77-05601—W77-06100	"	**12**	June 15, 1977
W77-06101—W77-06600	"	**13**	July 1, 1977
W77-06601—W77-07100	"	**14**	July 15, 1977
W77-07101—W77-07600	"	**15**	August 1, 1977
W77-07601—W77-08100	"	**16**	August 15, 1977
W77-08101—W77-08600	"	**17**	September 1, 1977
W77-08601—W77-09100	"	**18**	September 15, 1977
W77-09101—W77-09600	"	**19**	October 1, 1977
W77-09601—W77-10100	"	**20**	October 15, 1977
W77-10101—W77-10800	"	**21**	November 1, 1977
W77-10801—W77-11500	"	**22**	November 15, 1977
W77-11501—W77-12250	"	**23**	December 1, 1977
W77-12251—W77-13000	"	**24**	December 15, 1977

SUBJECT INDEX

100-YEAR FLOOD
Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

1972 FEDERAL WATER POLLUTION CONTROL ACT
Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

1972 FEDERAL WATER POLLUTION CONTROL AMENDMENTS
How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

1972 OCEAN DUMPING CONVENTION
International Law and Radioactive Pollution by Ocean Dumping: 'With All Their Genius and With All Their Skill...'
W77-08957 1018 5G

1974 GONZALEZ AMENDMENT
Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

2
Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

Distributions of Water and Herbicide in Lakeland Sand During Initial Stages of Infiltration,
W77-05180 1011 5B

Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

* Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

2-4-5-T
Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

Predicting 2,4,5-T Movement in Soil Columns,
W77-09649 1020 5B

2-4-D
Some Hygienic Problems Related to the Use of Herbicides of the 2,4-Dichlorophenoxyacetic Acid Group, (In Russian),
W77-02231 1005 5G

Distributions of 2,4-D and Water in Soil During Infiltration and Redistribution,
W77-02542 1005 5B

Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

2-4-D BEE
Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

2-METHYL-4-CHLOROPHENOXYACETIC ACID
Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

20-YEAR FLOOD
A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

3
The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

3-TRIFLUOROMETHYL-4-NITROPHENOL
Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

3-TRIFLUOROMETHYL-4-NITROPHENOLS
Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

5-CHLOROURACIL
Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

50-YEAR FLOOD
A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

A-NAPTHYLAMINE
Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

AAL'YAN REGION (USSR)
Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

AAR RIVER (SWITZERLAND)
Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne: Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

ABALONE
Harvesting the Ocean--On Land,
W77-00718 1002 5G

Long-Term Lead Accumulation in Abalone (Haliotis Spp.) Fed on Lead-Treated Brown Algae (Egregia Laevigata),
W77-06776 1014 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

ABANDONED FEED LOTS
Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

ABANDONED WELLS (SEALING)
Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

ABANDONMENT OF WATER RIGHTS
Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

ABANDONMENT (WATER RIGHTS)
Abandonment of Water Rights,
W77-06582 1013 6E

ABIOGENIC GAS SUPERSATURATION
Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

ABIOTIC ENVIRONMENT
The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

ABLATION
A Stochastic Snow Model,
W77-05489 1011 2C

Heat Balance in the Ablation Area of the Ampere Glacier (Kerguelen Islands),
W77-06511 1013 2C

ABNORMAL OCCURRENCES
Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

ABORIGINAL WATER RIGHTS
The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

ABRAMOV GLACIER (USSR)
Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

ABSAROKA MOUNTAINS
Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

ABSCISIC ACID
Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

ABSOLUTE LIABILITY
Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

ABSORBENTS
Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

ABSORBER GASES
Treating Foul Refinery Waste Waters with Absorber Gas,
W77-04961 1010 5D

ABSORBTION
Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

ABSORPTION
Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

Treating Polluted Water.
W77-00571 1002 5D

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

Cladophora in the Great Lakes,
W77-00928 1002 5C

Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

Predicting a Bioconcentration Potential of Organic Chemicals in Fish from Partition Coefficients,
W77-01312 1003 5C

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Effect of Lime on Boron Transport to and Uptake by Cotton,
W77-02282 1005 3F

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Simulation of Field Water Uptake by Plants Using a Soil Water Dependent Root Extraction Function,
W77-03315 1007 2G

Partitioning and Uptake of Pesticides in Biological Systems,
W77-03659 1008 5C

Uptake and Retention of Kuwait Crude Oil and its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-04026 1008 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Infiltration Analysis and Perturbation Methods 2. Horizontal Absorption,
W77-04750 1010 2G

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Phosphorus Uptake by Biological Slimes,
W77-05163 1013 5D

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

Influence of Environmental Factors on Selenium Flux in Two Marine Invertebrates,
W77-06405 1013 5C

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Uptake and Accumulation of the Nickel Ion by Mytilus edulis,
W77-07198 1015 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Uptake of Dissolved Ammonium and Nitrate Ion by the Fry of Common Carp, Crucian Carp and Loach from Surrounding Water, (In Japanese),
W77-07314 1015 5C

PCB Contents in the Muscle of Marine Animals Collected in the Sea near Hakodate (In Japanese),
W77-07315 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

Uptake and Retention of Kuwait Crude Oil and Its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-07506 1015 5C

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

Measurement of the Attenuation of Electromagnetic Radiation by Water in the Visible Region of the Spectrum,
W77-08293 1017 1A

Mercury Accumulation in Trout of Southern Missouri,
W77-08304 1017 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

A Transport Kinetic Concept for Ion Uptake by Plants, III. Test of the Concept by Results from Water Culture and Pot Experiments,
W77-09315 1019 2I

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

Aspects of Phosphate Utilization by Blue-Green Algae,
W77-09505 1019 5C

Effects of Three Environmental Variables on Sulfate Uptake by Aerobic Bacteria,
W77-09524 1019 5C

Evaluation of the Parameters of Soil Phosphorus Availability Factors in Predicting Yield Response and Phosphorus Uptake,
W77-09646 1020 2G

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

Transfer to Fish of Petroleum Paraffins and Organic Sulfur Compounds,
W77-10144 1021 5C

Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

Uptake of Cobalt-60 From Sea Water and from Labelled Food By the Common Shrimp Crangon Crangon (L),
W77-10407 1021 5C

Chemisorption of Phosphorus from Precleaned Municipal Sewage (Verfahren zur absorptiven Phosphorelimination aus vorgereinigtem kommunalem Abwasser),
W77-10611 1021 5D

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Oil Absorbent Material and Method of Oil Removal,
W77-11002 1022 5G

Development of Plankton Organisms of an Eutrophic Reservoir and their Interaction with a Radioactive Environment, (In Russian),
W77-11020 1022 5C

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Growth Rate and Nutrient Uptake of Two Cotton Cultivars Grown Under Irrigation,
W77-11393 1022 3F

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Retention of a Single Oral Dose of Cadmium in Tissues of the Softshell Turtle, Trionyx Spinifer,
W77-11513 1023 5C

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

Absorption and Accumulation of 32P by Oedogonium and Some Aquatic Macrophytes,
W77-11569 1023 5A

Plutonium-237: Comparative Uptake in Chelated and Non-Chelated Form by Channel Catfish (Ictalurus Punctatus),
W77-11642 1023 5C

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Concrete Properties at Ocean Depths,
W77-11779 1023 8F

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Corn Growth as Affected by Ammonium vs. Nitrate Absorbed from Soil,
W77-12124 1023 3F

Solubility and Availability of Cadmium in Cadmium-Sludge Amended Soil,
W77-12144 1023 5B

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

ABSORPTION FIELD DESIGN (SEPTIC TANKS)

Improving Design Criteria for Septic Tank Systems,
W77-02621 1006 5D

ABSTRACTS

Coal and the Environment, Abstract Series, Mine Drainage Bibliography, 1910-1976.
W77-01192 1003 5G

Annotated Bibliography of the Lakes, Ponds, and Reservoirs of New York State Through 1974 (Exclusive of Lakes Erie and Ontario),
W77-01418 1003 2H

Bibliography and Selected Abstracts of Reports on Water Resources and Related Subjects for Arkansas Through 1975,
W77-02014 1004 10C

Acid Mine Drainage (A Bibliography with Abstracts),
W77-02207 1005 5G

Economic Impacts of Weather Variability,
W77-02429 1005 3B

Abstracts. Special Synposium - The Middle Atlantic Continental Shelf and New York Bight,
W77-02678 1006 5C

Algae Abstracts, A Guide to the Literature, Volume 3, 1972-1974.
W77-04111 1009 5C

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 1, Abstracts.
W77-09344 1019 10C

Earth Resources--A Continuing Bibliography with Indexes.
W77-09346 1019 10C

Weather Modification Effects and Management (A Bibliography with Abstracts),
W77-09694 1020 2B

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

Final Report of the Task Committee on Branching Conduits,
W77-11590 1023 8B

ABU DHABI

Desert Food Factories,
W77-02176 1005 3C

ABYSSAL CIRCULATION

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

ACANTHAMOEBA

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

ACARTIA

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

ACARTIA CLAUSI

Study on Respiratory Metabolism Modifications in Acartia clausi (Crustacea: Copepoda) Populations after Passage through the Cooling Circuit of a Power Plant,
W77-07305 1015 5C

Trace Elements in Acartia Clausi from Elefsis Bay of the Upper Saronikos Gulf, Greece,
W77-11521 1023 5C

ACARTIA CLAUSI EGGS

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

ACARTIA SPP.

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

ACARTIA TONSA

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

Effects of Chlorine on the Copepod, Acartia Tonsa,
W77-11308 1022 5C

ACCABONAC HARBOR (NY)

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

ACCELERATED EROSION

Effects of Off-Road Vehicle Use on the Hydrology and Landscape of Arid Environments in Central and Southern California,
W77-04980 1010 4C

ACCESS ROUTES

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Circle Investment Co V City of Toledo (Effect of Changing Canal to Limited Access Highway on Abutting Landowners--No Access Required).
W77-01044 1002 6E

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

Freedom of Beach,
W77-03584 1007 6E

Recreational Water Resources Problems.
W77-08711 1018 6B

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

ACCIDENT PREVENTION

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

ACCIDENTAL POLLUTANT SPILLS

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

ACCIDENTS

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Canadian Pacific (Bermuda) Limited V United States (No Duty to Survey or Dredge Channel at Any Particular Time).
W77-08152 1017 6E

Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

National and International Efforts to Prevent Traumatic Vessel Source Oil Pollution,
W77-11467 1022 5G

ACCLIMATION

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

ACCLIMATIZATION

On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

ACCRETION

Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

ACCRETION (LEGAL ASPECTS)
State V Ashmore (Fixing Boundaries Adjacent to Tidewaters).
W77-00993 1002 6E

Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Acquisition of Property (Islands).
W77-03723 1008 6E

The Coastal Interface: Who Owns What,
W77-04362 1009 6E

Valder V Wallis (Establishing Title to Accreted Portion of Interstate Island),
W77-04932 1010 6E

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

Nature Conservancy V Machipongo Club, Inc. (Effects of Accretion on Easement).
W77-06059 1012 6E

State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

Riparian Owner's Right to New Land Created by Reliction or by Accretion Influenced by Artificial Condition Not Produced by Such Owner.
W77-08398 1017 6E

De Simone V Kramer (Artificially Created Accretion Subject to Law Concerning Natural Accretion).
W77-10487 1021 6E

Hodgen v Kliewer (Boundary Changes Proper for Accretion but not Avulsion).
W77-11187 1022 6E

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

ACCUMULATION
Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

ACCUMULATION FACTORS
The Fish/Water Accumulation Factor-An Important Parameter for Determining the Environmental Capacity of Surface Waters.
W77-10416 1021 5B

ACCUMULATION RATES
An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

ACETIC ACID
Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

ACETIC ACIDS
Some Hygienic Problems Related to the Use of Herbicides of the 2,4-Dichlorophenoxyacetic Acid Group, (In Russian),
W77-02231 1005 5G

ACETIC ANHYDRIDE
How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

ACETYL-GLUCOSAMINIDASE
The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

ACETYLCHOLINESTERASE
Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

ACETYLENE REDUCTION ASSAY
Nitrogen Fixation in Aquatic Environments--A Critical Study of Acetylene Reduction Assay,
W77-09490 1019 5A

ACHNANTHES
Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

ACHNANTHES-MINUTISSIMA
The Productivity of Fouling Organism Associations in Lake Zelenetskoe, (In Russian),
W77-08323 1017 5C

ACHNANTHES SP
Response of the Spokane River Diatom Community to Primary Sewage Effluent,
W77-09273 1019 5C

ACHROMOBACTER
The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

ACID BACTERIA
New Medium for Isolating Iron-Oxidizing and Heterotrophic Acidophilic Bacteria from Acid Mine Drainage,
W77-09511 1019 5B

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

ACID-BASE EQUILIBRIUM
Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

ACID LAKE
Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

ACID LAKES
Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

ACID MINE DRAINAGE
Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

ACID MINE WASTES
Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

ACID MINE WATER
Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

Commonwealth V. Barnes and Tucker Company (Public Nuisance of Acid Mine Drainage).
W77-03519 1007 6E

The Rotating Biological Contactor for Biochemical Ferrous Iron Oxidation in the Treatment of Coal Mine Drainage,
W77-05337 1011 5D

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

Coal and Coal Mine Drainage, (Literature Review),
W77-10355 1021 5G

Electrobiochemical Neutralization of Acid Mine Water,
W77-10569 1021 5B

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

ACID MINE WATERS
Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

ACID PRECIPITATION
Acid Precipitation,
W77-02800 1006 2B

Waterfowl and Acid Precipitation in Norway, (In Danish),
W77-03841 1008 5C

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

The Utility of Paleolimnological Analyses of Lake Sediments for Evaluating Acid Precipitation Effects on Dilute Lakes,
W77-08103 1017 5A

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

A Presentation of the Norwegian Effect 'Acid Precipitation-Effects on Forest and Fish',
W77-10724 1021 5C

Proceedings of a Conference on Emerging Environmental Problems: Acid Precipitation.
W77-12809 1024 5A

Acid Precipitation: A World Concern,
W77-12810 1024 5A

Acid Precipitation: Our Understanding of the Phenomenon,
W77-12811 1024 5A

Acid Precipitation: Our Understanding of the Ecological Effects,
W77-12812 1024 5A

ACID RAIN

An Investigation of the Particulate Phase of Acid Precipitation,
W77-10178 1021 2B

ACID RAINFALL

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

ACID SOILS

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

ACID SOLUBILIZATION

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

ACID STREAMS

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

Coal and Coal Mine Drainage, (Literature Review),
W77-10355 1021 5G

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

ACID TITRATION OF ALKALINITY

The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

ACID WASTES

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

ACID WATER

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

ACID WATERS

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

ACIDIC FALLOUT

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

ACIDIC SOILS

Amelioration of Subsurface Acidity by Leaching of Surface Applied Amendments. A Laboratory Study,
W77-01483 1003 2G

Cation-Exchange Capacity of Acid Soils Using Aluminum Chloride and Barium Chloride-Triethanolamine,
W77-09652 1020 2G

ACIDIC WATER

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Precipitation Chemistry Studies at Lake George: Acid Rains,
W77-03098 1007 5A

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Atmospheric Sulfate Additions and Cation Leaching in a Douglas Fir Ecosystem,
W77-08822 1018 2K

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

Effects of Acidity on the Phytoplankton and Primary Productivity of Selected Northern Ontario Lakes,
W77-10733 1021 5C

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

Effects of Simulated Rain Acidified With Sulfuric Acid on Host-Parasite Interactions,
W77-11542 1023 5C

ACIDITY

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

Sodium Bicarbonate Treats Acidic Industrial Wastes,
W77-10347 1021 5D

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

ACIDITY OF PRECIPITATION

Acidity in Rainfall,
W77-11138 1022 5A

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

ACIDITY OF PRECIPITATION

An Evaluation of Precipitation pH Data from the Washington, DC Area Collected During 1975,
W77-01703 1004 2B

ACIDS

Volatile Fatty Acids in Bottom Deposits of the Rybinsk Reservoir, (In Russian),
W77-00126 1001 5C

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Some Hygienic Problems Related to the Use of Herbicides of the 2,4-Dichlorophenoxyacetic Acid Group, (In Russian),
W77-02231 1005 5G

Supersaturation Phenomena and the Formation of Fluorapatite in Aqueous Suspensions of Phosphate Rock,
W77-03074 1006 2G

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Waste-Water Process,
W77-08100 1016 5D

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

'Not One Drop of Effluent'--Hydrochloric Acid Recovery from Spent Pickle Liquor.
W77-09417 1019 5D

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Well Redevelopment: Part 1,
W77-12673 1024 8B

Proceedings of a Conference on Emerging Environmental Problems: Acid Precipitation.
W77-12809 1024 5A

Acid Precipitation: A World Concern,
W77-12810 1024 5A

Acid Precipitation: Our Understanding of the Phenomenon,
W77-12811 1024 5A

Acid Precipitation: Our Understanding of the Ecological Effects,
W77-12812 1024 5A

Health Effects of Acid Aerosols,
W77-12813 1024 5A

Method of Reducing Lead and Acid Waste Contamination in Battery Plant Operation,
W77-12922 1024 5D

ACOMA INDIAN RESERVATION (NM)

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

ACOUSTICS

A Passive Flow Measurement System for Storm and Combined Sewers,
W77-00628 1002 5D

Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

Measurements of Acoustic Properties of Hard-Pack Snow,
W77-02462 1005 2C

Acoustic Measurement of Sediment Transport,
W77-07338 1015 2J

Acoustic Oceanography,
W77-10318 1021 2L

An Acoustic Emissions Monitoring System for Avalanche Snowpacks,
W77-12368 1024 2C

ACREAGE

California Water Project: Law and Politics,
W77-03583 1007 6E

What's Really Happening in Westlands,
W77-04921 1010 6E

Reclamation Law in Litigation: Acreage and Residency Limitations on Private Lands,
W77-12889 1024 6E

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

ACROLEIN

The Influence of Acrolein and Hydrocryle on the Development Dynamics of Aquatic Bacteria,
W77-06690 1014 5C

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

ACRYLIC PLASTIC

Water Intake by a Water-Filled Plexiglas Permeameter Cell,
W77-11617 1023 2G

ACTIATED CARBON

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

ACTINOMYCETES

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

ACTIVATED

Intermittent Sand Filtration of Household Wasterwater,
W77-03452 1007 5D

ACTIVATED ALUMINA COLUMNS

Effluent Polishing by Filtration through Activated Alumina, Volume II, (March, 1975).
W77-02755 1006 5D

ACTIVATED CARBON

Cross-Flow Filtration in Physical-Chemical Treatment of Municipal Sewage Effluents,
W77-00042 1001 5D

Activated Carbon Odor Control System,
W77-00056 1001 5D

Powdered Activated Carbon Improves Anaerobic Digestion,
W77-00067 1001 5D

Sorption on Activated Carbon of Impurities of Textile Industry Effluents (Sorpcja zanieczyszczen ze sciekow przemyslu wlokienniczego na weglu aktywnym),
W77-00339 1001 5D

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

Method of Producing Char from Pulp Manufacturing Waste Liquor,
W77-01676 1004 5E

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

Environmental Protection in the Pulp and Paper Industry, Possibilities of Realization and Present State of Technology (Umweltschutz in der Zellstoff- und Papierindustrie, Moeglichkeiten der Realisierung und heutiger Stand der Technik),
W77-02568 1005 5D

Treatment of Papermaking Effluents (Traitement d'effluents de papeteries),
W77-02570 1005 5D

Waste Treatment Advances: Waste Water Treatment Via Activated Carbon,
W77-02610 1006 5D

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

The Kinetics of Adsorption of Phenols by Granular Activated Carbon,
W77-03149 1007 5D

Activated Carbon From Activated Sludge,
W77-03425 1007 5D

Sewage Sludge Treatment System,
W77-03487 1007 5D

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

Sorption of Poliovirus From Aqueous Solution with Active Carbon,
W77-05325 1011 5D

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

BOD5 Decreased to Less Than 10 MG/Liter With Carbon Adsorption System,
W77-05496 1011 5D

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

Removal of Lead in Water Treatment (Badania nad usuwaniem olowiu z wod),
W77-06190 1013 5D

Design Principles of Activated Carbon-Filled Adsorption Columns for Waste Water Treatment (Zasady projektowania kolumn sorpcyjnych z weglem aktywnym do oczyszania sciekow),
W77-06194 1013 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-07093 1014 5D

Studies on Adsorption with Activated Carbon,
W77-07855 1016 5D

Control of Aerobic Biological Growth in Activated Carbon Waste Treatment,
W77-07897 1016 5D

Process Could Save Millions of Pounds on Sewage Treatment Plants,
W77-07904 1016 5D

Effects of Polyelectrolytes and Clay Colloids on Carbon Adsorption,
W77-07926 1016 5D

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

What Lies Ahead for PAC,
W77-08541 1017 5D

Activated Carbons for Effluent and Water Treatment,
W77-09409 1019 5D

Powdered Activated Carbon Addition to Biological Reactors,
W77-09599 1019 5D

Activated Carbon Adsorption Process for Purification of Textile Waste Waters,
W77-09744 1020 5D

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Organic Matter Removal by Powdered Activated Carbon Added to Activated Sludge,
W77-09850 1020 5D

Effect of Sorbed Organics on the Efficiency of Ammonia Removal by Chloramine-Carbon Surface Reactions,
W77-09902 1020 5D

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

Biological Regeneration of Powered Activated Carbon Added to Activated Sludge Units,
W77-10601 1021 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Physical-Chemical Treatment System for Sewage.
W77-11701 1023 5D

Granular Activated Carbon in Water Treatment,
W77-11720 1023 5D

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon: No. II,
W77-11830 1023 5D

A Kinetic Analysis of Ammonia Removal by Chloramine Conversions on Activated Carbon,
W77-12141 1023 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Conventional Tertiary Treatment,
W77-12474 1024 5D

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

ACTIVATED CHARCOAL

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

ACTIVATED SLUDGE

Processing, Economics and Sale of Heat Dried Sludge,
W77-00037 1001 5D

Oxygen for Effluent Treatment.
W77-00060 1001 5D

New Acton Grange Works.
W77-00061 1001 5D

Evaluation of Activated Sludge Control Techniques Through Pilot Plant and Computer Analyses,
W77-00157 1001 5D

Method of Treating Waste Water,
W77-00566 1002 5D

Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 1002 5D

For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Sodium Aluminate Improves Sludge Properties,
W77-00588 1002 5D

Single-Stage Nitrification-Denitrification,
W77-00590 1002 5D

Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

The Effluent Treatment Plant of BASF AG in Ludwigshafen/Rhine,
W77-00742 1002 5D

Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

Dissolved Air (Pressure) Flotation - An Evaluation of Inter-Relationships Between Process Variables and their Optimisation for Design,
W77-01367 1003 5D

Treatment of Sewage with Special Reference to Aeration and Methods of Aeration,
W77-01459 1003 5D

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Considerations on the Waste Water Quality and Treatment at the Antibiotics Plant from Jassy, (In Hungarian),
W77-01580 1004 5D

Laboratory Research Methodology of Waste Water Treatability by Activated Sludge Process, (In Hungarian),
W77-01582 1004 5D

The Biodegradability of Some Organic Pollutants Present in the Waste Waters Resulted from the Petroleum Refineries, (In Hungarian),
W77-01583 1004 5D

Some Results of the Full-Scale Tests of the Laboratory Researches on the Biological Treatment of Waste Waters from Hog Breeding Farms, (In Hungarian),
W77-01584 1004 5D

Biological Clarification Plant Started Up at the Wiesloch Corrugated Board Mill (Wellpappe Wiesloch nahm biologische Klaeranlage in Betrieb).
W77-01647 1004 5D

Dewatering of Activated Sludge with Filter Belt Presses,
W77-01651 1004 5D

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

ACTIVATED SLUDGE

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

Clarification Plant,
W77-02337 1005 5D

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

Open Tank Pure Oxygen System Begins Operation,
W77-02359 1005 5D

Packaged Plant for Virgin Islands.
W77-02360 1005 8G

Efficiency of Diffused Aeration Systems in Wastewater Treatment,
W77-02362 1005 5D

Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

Fluid-Bed Reactor May Cut Sewage Costs.
W77-02367 1005 5D

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

Biological Process for Effluent and Waste Treatment as Applied in the Paper Industry,
W77-02607 1006 5D

Advanced Treatment of Pulp Waste Water (Parapu haisui no kodo shori),
W77-02608 1006 5D

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

System for Dewatering Dilute Slurries,
W77-03352 1007 5D

Technical Assistance Project Greeley Wastewater Treatment Facility, Greeley, Colorado. June-July, 1972,
W77-03368 1007 5D

Activated Sludge Waste Water Treatment Process - Using Succession of Aerobic and Anaerobic Zones to Remove Nitrogenous Material.
W77-03402 1007 5D

Biological Treatment of Sewage Waters - Device with Internal Aeration Zone,
W77-03404 1007 5D

Integral Circular Wastewater Treatment Plant.
W77-03411 1007 5D

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

Activated Carbon From Activated Sludge,
W77-03425 1007 5D

Design and Control of Nitrifying Activated Sludge Systems,
W77-03426 1007 5D

Elemental Distribution Diagrams for Biological Wastewater Treatment,
W77-03429 1007 5D

Effluent Variability Estimation for Complete-Mix Activated Sludge Treatment Systems,
W77-03434 1007 5D

Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Oxygen and Air Activated Sludge: Another View,
W77-03444 1007 5D

Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

Supernatant Decanting of Aerobically Digested Waste Activated Sludge,
W77-03450 1007 5D

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Effect of High Dissolved Oxygen Concentration in Activated Sludge Systems,
W77-03571 1007 5D

Inhibiting Nitrification in Wastewater Treatment Plants,
W77-03573 1007 5D

Design and Operational Criteria for Thickening of Biological Sludges,
W77-03734 1008 5D

Effect of Dyes Used in the Textile Industry on the Purification of Effluents by the Activated Sludge Process (Wplyw niektorych barwnikow stosowanych w przemysle wlokienniczym na oczyszczanie sziekow osadem czynnym),
W77-03821 1008 5D

Biological Effluent Clarification in the Paper Mill Circulation System (Biologische Abwasseraufbereitung im Kreislauf einer Papierfabrik),
W77-03824 1008 5D

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Device for Purifying Sewage,
W77-03869 1008 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Biological Treatment of Effluent Containing Activated Sludge-Involves Continuously Introducing Oxygen (Contg. Gas) and Feeding the Outlet Gas to a Burner.
W77-04671 1010 5D

Activated Sludge Treatment-Passing all Sewage by Force Pump Through Atmospheric Air Entraining Enjectors into Activation Tank,
W77-04682 1010 5D

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

Whither Village Sewage,
W77-04698 1010 5D

Effluent and Water Treatment: The Economics of Lime Dosing and In-House Waste Treatment.
W77-04699 1010 5D

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

How to Control Biological Waste-Treatment Processes,
W77-04722 1010 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

A Dynamic Model and Computer Compatible Control Strategies for Waste Water Treatment Plants,
W77-05322 1011 5D

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Protein Composition of Activated Sludge from a Kraft Mill Effluent Biological Treatment Plant (Sklad bialka osadu czynnego z biologicznej oczyszczalni sciekow posiarczanowych),
W77-05694 1012 5E

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

Biological Waste Treatment,
W77-05711 1012 5D

Increasing the Biological Value of Activated Sludge (Povyshenie biologicheskoi tsennosti aktivnogo ila),
W77-05717 1012 5D

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

Optimal Size of Regional Wastewater Treatment Plants,
W77-05929 1012 5D

Models in Biological Wastewater Treatment: Objectives, Results, Applicability,
W77-05980 1012 5D

Sewage Treatment Devices Particularly for Marine Applications,
W77-06113 1013 5D

The Oxygen-Activated Sludge Process -- Theory and Practice,
W77-06119 1013 5D

Additional Studies on the use of Cracking Catalysts in Conjunction with Activated Sludge Waste Water Treating,
W77-06129 1013 5D

Modules Permit Easy Expansion,
W77-06131 1013 5D

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

The Purification of Highly Polluted Waste in a Test Plant, Using Pure Oxygen,
W77-06205 1013 5D

Biological Purification of Waste Water, Using Oxygen,
W77-06206 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

Accumulation of Reserve Polysaccharide in Activated Sludges Treating Carbohydrate Wastes,
W77-06214 1013 5D

Sludge Dewatering in Textile Plants,
W77-06226 1013 5D

Energy Requirements for Wastewater Treatment. Part 2,
W77-06252 1013 5D

Degritting and Fiber Removal System,
W77-06448 1013 5D

Activated Sludge Treatment of High Strength NSSC Mill Effluent,
W77-06945 1014 5D

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Influence of Phosphorus Removal on Solids Budget,
W77-07032 1014 5D

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

The Effect of High Purity Oxygen on the Activated Sludge Process,
W77-07043 1014 5D

Plant Data Analysis of Temperature Significance in the Activated Sludge Process,
W77-07046 1014 5D

Fuel Gas and Electricity from Municipal Sewage,
W77-07065 1014 5D

Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

Method of Treating Waste Water with Jet Nozzles,
W77-07090 1014 5D

Factors Affecting Nitrification,
W77-07854 1016 5D

Process Stability of Activity Sludge Processes,
W77-07857 1016 5D

Experiences in Evaluating and Specifying Aeration Equipment,
W77-07899 1016 5D

Air V. Oxygen in Dorset,
W77-07910 1016 5D

What's Up with Oxygen,
W77-07919 1016 5D

The Activated Sludge Process Without Preliminary Purification. Results of Pilot Experiments in the Purification Plant Karlsruhe (Das Belebungsverfahren ohne Vorreinigung. Ergebnisse der Versuche im halbtechnischen Massstab im Klaerwerk Karlsruhe),
W77-07927 1016 5D

Process Technological Background Regarding New Protective Regulations for Water Bodies-Results of Experiments on Nitrification and Phosphorus Elimination in Zurich and Bern. II. Process Technological Background of Nitrification in Activated Sludge Plants (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutz-Anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. II. Verfahrenstechnische Grundlagen der Nitrifikation in Belebtschlammanlagen),
W77-07953 1016 5D

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Analysis of Activated Sludge Process Performance,
W77-08096 1016 5D

Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Use of Oxygen in Activated Sludge Plants (Utilizzazione dell'ossigeno allo stato puro negli impianti a fanghi attivi),
W77-08545 1017 5D

High Capacity Waste Water Treatment System,
W77-08566 1017 5D

Oxygen System Activated Sludge Process.
W77-08575 1017 5D

High Speed Liquid Chromatographic Analysis of Cobalamin Productivity and Distribution in Activated Sewage Sludge Treatment,
W77-08621 1018 5A

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-08623 1018 5D

ACTIVATED SLUDGE

Controlling Sludge Bulking,
W77-08636 1018 5D

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

The Effects of Chili Waste on an Activated Sludge Process,
W77-09141 1019 5D

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Optimal Control of an Unsteady State Continuous Activated Sludge System: A Comparison of Digital Computer Simulation Vs Pilot Plant Results,
W77-09597 1019 5D

Some Effects of Lime Addition on High Solids, Completely Mixed, Activated Sludge Waste Water Treatment,
W77-09601 1020 5D

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Highly Efficient Aerating System--For An Activated Sludge Effluent Treatment Plant, with Restricted Liquid Circulation in Aerating Tank.
W77-09844 1020 5D

Organic Matter Removal by Powdered Activated Carbon Added to Activated Sludge,
W77-09850 1020 5D

Nitrification in a Chlorinated Activated Sludge Culture,
W77-09851 1020 5D

Upgrading a Complex Mix Activated Sludge Wastewater Treatment Plant,
W77-09854 1020 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

The Activated Sludge Process, Part 1 - Steady State Behaviour,
W77-10094 1020 5D

Bioflocculation in the Activated Sludge Process,
W77-10208 1021 5D

A Review of Biological Phosphorus Removal in the Activated Sludge Process,
W77-10211 1021 5D

Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Operating Experiences on Petrochemicals Waste Water Treatment Plant of Gujarat Aromatics Project at Jawaharnagar,
W77-10351 1021 5D

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

The Persistence of Poliovirus in Activated Sludge Treatment,
W77-10583 1021 5D

Biological Regeneration of Powered Activated Carbon Added to Activated Sludge Units,
W77-10601 1021 5D

Anglian Opens Its Largest Sewage Treatment Works.
W77-10621 1021 5D

A Method for Studying Microfauna of Activated Sludge (Metoda badania mikrofauny osadu czynnego),
W77-10643 1021 5D

Activated Sludge,
W77-10646 1021 5D

Biology and Biotechnology of Waste Water Treatment (Biologie und Biotechnologie der Abwasseraufbereitung),
W77-10650 1021 5D

Effect of Alum Addition on Aerobic Digestion of Activated Sludge,
W77-10653 1021 5D

Purification of Pulp Mill Effluents by the Activated Sludge Method Using Pure Oxygen (Wyniki badan oczyszczania sciekow celulozowych metoda osadu czynnego z uzyciem czystego tlenu),
W77-10716 1021 5D

Dynamic Models and Computer Simulation of Wastewater Treatment Systems,
W77-10814 1022 5D

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

Conceptual Model for Activated Sludge Processes,
W77-11485 1022 5D

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Basic Units Manufactured for Sludge Treatment.
W77-11699 1023 5D

Oxygen Injection Blows New Life Into Drought Hit Sewage Treatment Works,
W77-11702 1023 5D

Two Contracts Underway to Complete South Bay Area Water Treatment Plant.
W77-11705 1023 5D

Adaptation to Nitrification of Activated Sludge Systems Treating Highly Nitrogenous Waters,
W77-11706 1023 5D

Extensions to Great Billing STW Opened.
W77-11707 1023 5D

Guidelines for the Quick Evaluation of the Sewage Purification Process with Activated Sludge (Przewodnik dla szybkiej oceny przebiegu oczyszczania sciekow osadem czynnym. Czesc. III. Organizmy rzadziej spotykane),
W77-11726 1023 5D

Effects of Nitrification in the Activated Sludge Process,
W77-11727 1023 5D

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Behavior of Benzidine and Other Aromatic Amines in Aerobic Wastewater Treatment,
W77-11733 1023 5B

Current Sludge Research at the WRC,
W77-11741 1023 5E

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

Salvaging an Old Sewage Plant Cuts Tertiary Treatment Costs.
W77-11751 1023 5D

Automatic Dissolved Oxygen Control,
W77-11752 1023 5D

Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

Occurrence of Escherichia Coli B Bacteriophages in Municipal Wastewater and Their Removal and Inactivation by Activated Sludge Sewage Treatment,
W77-12140 1023 5A

Significance of Temperature in the Activated Sludge Process,
W77-12142 1023 5D

Sorption of Soluble Components of Pulp and Paper Industry Effluents by Activated Sludge (Zakonomernosti sorbtsii rastvorennykh komponentov stochnykh vod ts(ellyuloznoj)b(umazhnoy) p(romyshlennosti) aktivnym ilom),
W77-12350 1024 5D

Effect of a Surface-Active Agent on the Biological Purification of Industrial Effluents (Vliyanie poverkhnostnoaktivnogo veshchestva na protsess biologicheskoi ochistki promstokov),
W77-12352 1024 5D

Experimental Equipment for Cultivation of Activated Sludge Under Conditions of Constant Oxidation Potential (Eksperimental'naya ustanovka dlya kul'tivirovaniya aktivnogo ila v usloviyakh postoyanstva okislitel'nogo potentsiala),
W77-12357 1024 5D

Treatment of Effluent from a Pulp and Paper Mill Through Ozone and the Activated Sludge Process (Die Behandlung des Abwassers einer

Zellstoff- und Papierfabrik mittels Ozon und Belebtschlammverfahren),
W77-12362 1024 5D

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Activated Sludge Process Design,
W77-12407 1024 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Pilot-Plant Experiments on Sewage Purification in an Activated Sludge System with a Selector (Poloprovozni Pokusy S Cistenim Mestske Odpadni Vody V Aktivacnim Systemu Se Selektorem),
W77-12423 1024 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

Waste Water Treatment System.
W77-12451 1024 5D

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

Waste Water Aerating and Clarifying Tank Has Perforated Plate for Circulation Between Aeration and Clarification Zones.
W77-12456 1024 5D

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

ACTIVATED SLUDGE PROCESS

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

ACTIVATED SLUDGE REACTORS

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

ACUTE TOXICITY

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

ADAMS CREEK (OK)

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

ADAPTATION

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01507 1003 5C

The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Allelic Selection in a Fish (Gymnocephalus Cernua (L.)) Subjected to Hotwater Effluents,
W77-04572 1009 5C

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

Effect of Varying Oxygen Concentrations on the Filtering Rate of Daphnia Pulex,
W77-06473 1013 5C

Some Significant Regularities in Plant Hydroadaptation, (In Russian),
W77-06774 1014 3B

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

ADDED MASS COEFFICIENTS

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

ADDITIVE EFFECTS

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

ADDITIVES

Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

Sodium Aluminate Improves Sludge Properties,
W77-00588 1002 5D

Reverse Osmosis as an Advanced Treatment Process,
W77-00607 1002 5D

Cementing Oil and Gas Wells, Part 3,
W77-08328 1017 8F

Additives Tailor Cement to Individual Wells,
W77-08665 1018 8F

Effects of Drilling Mud on Rock Bit Performance,
W77-12672 1024 8G

ADELAIDE HILLS (SA)

An 'Environmental' Approach to Stormwater Management in the Adelaide Hills (Australia),
W77-00953 1002 4A

ADENOSINE TRIPHOSPHATE

Adenosine Triphosphate (ATP) Levels in Microbial Cultures and a Review of the ATP Biomass Estimation Technique,
W77-06942 1014 5A

Microbial ATP Studies,
W77-07978 1016 5C

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

ADENOSINE TRIPHOSPHATE (ATP)

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

ADENOVIRUSES

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

ADFLUVIAL SALMONIDS

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

ADHESIVES

Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

ADJACENT COASTAL STATE

Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

ADJACENT LAND OWNERS

Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

Nature Conservancy V Machipongo Club, Inc. (Effects of Accretion on Easement).
W77-06059 1012 6E

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

ADJACENT LANDOWNERS

Bentley v. Industrial Fire Protection Company (Liability for Increasing Drainage onto Adjoining Property).
W77-06563 1013 6E

Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

ADJUDICATION PROCEDURE
Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

Benson V Burgess (Superior and Subordinate Rights to Irrigation Water).
W77-10476 1021 6E

ADJUSTED COSTS
Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

ADJUSTMENT COSTS
Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

ADMINISTRATION
The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

Flood Control by State in Cooperation With Federal Agencies.
W77-01007 1002 6E

Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

Water Pollution Control Administration, A Memorandum Report on a Reconnaissance Study.
W77-03684 1008 5G

Water Law and Administration in the United States,
W77-04356 1009 6E

Model Water Pollution Statute,
W77-05042 1010 5G

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

Growth with Environmental Awareness,
W77-05044 1010 6E

The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Impact of Legal Constraints on Ground-Water Resource Development in Idaho,
W77-10173 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
W77-10357 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
W77-10358 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Japan.
W77-10360 1021 6E

Multifunctional Approach to Pollution Prevention,
W77-10638 1021 5G

National Environmental Policy: Coordination or Confusion,
W77-10927 1022 6E

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

ADMINISTRATIVE AGENCIES
Federal Water Resources Research Program for 1973 and 1974, Committee on Water Resources Research of the Federal Council for Science and Technology, (1976).
W77-00531 1002 9D

Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

Wisconsin Natural Resource Use Controls and Assistance.
W77-00915 1002 6E

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Water Conservancy Act.
W77-01011 1002 6E

Commission for Ocean Advancement Through Science and Technology.
W77-01103 1003 6E

Implementation of Multi-Objective Planning in the Department of Commerce,
W77-01159 1003 6B

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

Water Pollution.
W77-03495 1007 6E

Irrigation and Water Rights.
W77-03502 1007 6E

Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

Village of Lombard V State Pollution Control Board (Pollution Control Board Without Authority to Impose Regionalization Upon Local Governmental Bodies).
W77-03511 1007 6E

Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

Section 208 Program Review, (Environmental Protection Agency), (Draft).
W77-03686 1008 5D

State Administration Generally (Powers and Duties of the Department of Water Resources).
W77-03704 1008 6E

Watergate Village: A Case Study of a Permit Application,
W77-04349 1009 6E

1975 Annual Report Natural Resources and Recreation Agencies,
W77-04357 1009 6E

Department of Ecology,
W77-04358 1009 6E

Oil Pollution Prevention.
W77-04367 1009 5G

Flood Control Regulations.
W77-04371 1009 4A

Oklahoma Planning and Resources Board.
W77-04382 1009 6E

Water (General Interpretation and Administration Provisions).
W77-04383 1009 6E

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

Water Divisions and Superintendents.
W77-06576 1013 6E

U.S. Environmental Protection Agency Environmental Research Outlook FY 1976 Through 1980 (Report to Congress).
W77-08120 1017 6G

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

Snake River Land Co V State Board of Control (Beneficial Use of Water Held Sufficient Proof of Appropriation).
W77-08135 1017 6E

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

Ticket to Thermidor: A Commentary on the Proposed California Coastal Plan,
W77-08379 1017 6B

Great Salt Lake Management and Development.
W77-08407 1017 6E

Section 208 and Section 303 Water Quality Planning and Management: Where is it Now,
W77-08949 1018 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Control of Pollution by Oil and Hazardous Substances, Discharge Removal.
W77-08987 1018 5G

Mianus River Preservation Committee V. Administrator, Environmental Protection Agency (Jurisdiction of Federal Appeals Court for Permits Issued by State Agency Under NPDES).
W77-09001 1018 6E

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

Policy Innovation and Institutional Fragmentation,
W77-09053 1018 6E

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Wetlands-Related Legislation in the United States,
W77-09324 1019 6E

Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

Coastal Zones.
W77-09566 1019 6E

Pitman v Washington Suburban Sanitary Commission (Environmental Effects Reports Only Required for State Actions).
W77-09573 1019 6E

Tanners' Council of America V Train (Review of Effluent Limitations for Tanning Industry).
W77-09578 1019 6E

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

State V Oroville-Wyandotte Irrigation District (Inherent Duality of the Federal Power Act).
W77-09582 1019 6E

Conservation Districts Law.
W77-09584 1019 6E

Flood Control.
W77-09585 1019 6E

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

Fallen Leaf Protection Association v South Tahoe Public Utilities District (Provisions of California Water Code Requiring Specific Property Owners to Connect to Sewer Lines Upheld Against Constitutional Challenge).
W77-11182 1022 6E

ADMINISTRATIVE DECISIONS

Optimal Taxation Policies for Conservation and Recycling,
W77-00921 1002 6G

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

Monsanto Company V Illinois Pollution Control Board (Requirements for Petitioning for Permanent Variance from Water Pollution Regulations Pertaining to Mercury Discharge into Public Sewer System).
W77-06068 1012 6E

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

City of York V. Pennsylvania Department of Environmental Resources (Delegation of Authority Under the Pennsylvania Waste Management Act).
W77-08403 1017 6E

Water Resources Commission V. Connecticut Sand and Stone Corporation (Judicial Review of Administrative Factual Determination).
W77-08404 1017 6E

PL 92-500: New Federalism or Federal Takeover,
W77-08972 1018 6E

Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

E I Dupont De Nemours and Company v Train (Review of Effluent Limitations for Chemical Industry).
W77-11201 1022 6E

ADMINISTRATIVE PROCEDURES ACT (APA)

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

ADMINISTRATIVE REGULATIONS

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Shoreland Regulation in Wisconsin,
W77-01087 1003 6E

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

The Muddy Road to Clean Water,
W77-03587 1007 5G

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Oil Pollution Prevention.
W77-04367 1009 5G

Butadiene Limitations, Guidelines and Standards; Amendment.
W77-04368 1009 5G

Flood Control Regulations.
W77-04371 1009 4A

The Rocky Road to Water for Energy,
W77-04904 1010 3E

ADMINISTRATIVE REGULATIONS

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

Canned and Preserved Seafood Processing Point Source Category, Effluent Guidelines and Standards.
W77-06057 1012 5G

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

Governmental Interest in Protecting Beach from Environmental Damage Through Overuse Outweighs Due Process Right to Bath Nude,
W77-08124 1017 6E

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

Oil Spills and Spills of Hazardous Substances.
W77-08385 1017 5G

Appropriation of Water.
W77-08405 1017 6E

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

Enforcement of Municipal Permits: Portent of Problems,
W77-08971 1018 6E

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
W77-08984 1018 5G

Interim Primary Drinking Water Regulations: Promulgation of Regulations on Radionuclides.
W77-08985 1018 5G

Control of Pollution by Oil and Hazardous Substances, Discharge Removal.
W77-08987 1018 5G

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

Mc Cormick V Lawrence (Constitutionality of New York Statute Aimed at Promoting Governmental Interest in Preserving Appearance of an Area).
W77-09004 1018 6E

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Effluent Guidelines and Standards Steam Electric Power Generating Point Source Category.
W77-09558 1019 5G

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Permit Program Regulations for Agricultural Activities, (NPDES), (Proposed).
W77-09560 1019 6E

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

Federal and State Controls Over Land/Water Development in Navigable and Non-Navigable Waters,
W77-10470 1021 6E

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Water Law in New Zealand,
W77-12883 1024 6E

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

ADMINISTRATIVE REGULATIONS (EPA)

Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

Marine Sanitation Device Standard.
W77-03531 1007 5G

ADMIRALITY AND MARITIME JURISDICTION

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

ADMISSIBILITY OF EVIDENCE

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

ADOPTION OF PRACTICES

Colorado Water Quality Control Act.
W77-03490 1007 6E

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

The Application of Technology in Developing Countries.
W77-11637 1023 6B

ADRIATIC SEA

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-10728 1021 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

ADRIATIC SEA (YUGOSLAVIA)

Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

ADSORPTION

Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

Manganese and Iron Removal from Water by Adsorption on Diatomaceous Earth,
W77-00155 1001 5F

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W77-02535 1005 3A

Advanced Treatment of Pulp Waste Water (Parapu haisui no kodo shori),
W77-02608 1006 5D

Waste Treatment Advances: Waste Water Treatment Via Activated Carbon,
W77-02610 1006 5D

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

The Kinetics of Adsorption of Phenols by Granular Activated Carbon,
W77-03149 1007 5D

Activated Carbon From Activated Sludge,
W77-03425 1007 5D

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

Adsorption of C14-DDT to Particle Surfaces,
W77-03658 1008 5B

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

Adsorption as a Protective Mechanism for Waterborne Viruses,
W77-04997 1010 5F

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Virus-Coal Sorption Interaction,
W77-06162 1013 5D

Design Principles of Activated Carbon-Filled Adsorption Columns for Waste Water Treatment (Zasady projektowania kolumn sorpcyjnych z weglem aktywnym do oczyszania sciekow),
W77-06194 1013 5D

Polymeric Adsorbents for Treatment of Waste Effluents,
W77-06213 1013 5D

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

The Removal of Acid Dye from Effluent Using Natural Absorbents-II,
W77-06228 1013 5D

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Phosphates in Soils Treated with Sewage Water: III. Kinetic Studies on the Reaction of Phosphates with Aluminum Compounds,
W77-07054 1014 5B

Solubility and Plant Uptake of Cadmium in Soils Amended with Cadmium and Sewage Sludge,
W77-07055 1014 5B

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Adsorption, Coagulation and Filtration Make a Useful Treatment Combination-Part 2,
W77-07077 1014 5D

Transport of Reactive Solutes Through Multilayered Soils,
W77-07758 1016 2G

Studies on Adsorption with Activated Carbon,
W77-07855 1016 5D

Process Could Save Millions of Pounds on Sewage Treatment Plants,
W77-07904 1016 5D

Hygenic Assessment of Tertiary Adsorption Treatment of Domestic Sewage and Industrial Effluents (Gigienicheskaya Otsenka Tretichnoyi Adsorbtsionnoyi Ochistki Bytovykh I Promyshlennikh Stochnykh Vod),
W77-07906 1016 5D

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

Method for Improving the Quality of Contaminated Waste Water,
W77-08090 1016 5D

Removing Explosives from Wastewater,
W77-08266 1017 5D

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

Clay Adsorption Treatment of Non-Ionic Surfactants in Waste Water,
W77-08522 1017 5D

Use of Oxygen in Activated Sludge Plants (Utilizzazione dell'ossigeno allo stato puro negli impianti a fanghi attivi),
W77-08545 1017 5D

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Behavior of Chromium in Soils: II. Hexavalent Forms,
W77-09283 1019 2G

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

Adsorption of Dodecylbenzene Sulfonate on NA(+)-Montmorillonite: Effect of Salt Impurities,
W77-09651 1020 2G

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

Activated Carbon Adsorption Process for Purification of Textile Waste Waters,
W77-09744 1020 5D

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

Zinc Adsorption Isotherms for Soil Clays With and Without Iron Oxides Removed,
W77-10284 1021 2G

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

Removal of Organic Residual Matter from Effluents with the Aid of Macroporous Adsorption Resins (Entfernung von organischen Reststoffen aus Abwaessern mit Hilfe von Makroporoesen Adsorberharzen),
W77-10617 1021 5D

Physical and Chemical Methods,
W77-10645 1021 5D

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

The Depth of Penetration with Water of the Pesticide BHC in the Presence of Sulfanol into the Ground, (In Russian),
W77-11523 1023 5B

The Potential Toxicity and Bioaccumulation in Aquatic Systems of Trace Elements Present in Aqueous Coal Conversion Effluents,
W77-11540 1023 5C

Granular Activated Carbon in Water Treatment,
W77-11720 1023 5D

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon: No. II,
W77-11830 1023 5D

Reclamation of a Saline-Sodic Soil by the High Saltwater-Dilution Method,
W77-12035 1023 3C

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Process for Purifying Industrial Effluents.
W77-12335 1024 5D

Chemical Concentration by Adsorption,
W77-12360 1024 5D

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

ADSORPTION ISOTHERMS

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

ADULT CHINOOK SALMON

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

ADULT FISH

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

ADVANCED WASTEWATER TREATMENT (AWT)

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

ADVECTION

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Evaporation and Advection I: Evaporation from Extensive Homogeneous Surfaces,
W77-03859 1008 2D

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

Evaporation and Advection II: Evaporation Downwind of a Boundary Separating Regions Having Different Surface Resistances and Available Energies,
W77-06897 1014 2D

ADVECTIVE FOG

Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

ADVERSE POSSESSION

Gibbons V Globe Development, Nevada, Inc. (Adverse Use And Additional Supply Present Factual Questions Sufficient to Avoid Summary Judgement).
W77-06062 1012 6E

Pearson V. City of Guttenberg (City's Procrastination in Developing Riverside Tract Give Private Adjacent Owner Title).
W77-06067 1012 6E

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

AEDES SPECIES

Bloodsucking Mosquitoes (Diptera, Culicidae) of the White Sea Coast: III. Breeding Places of Mosquitoes of the Genus Aedes, (In Russian),
W77-02699 1006 5G

AEOLIAN SOILS

The Production and Recognition of Aeolian Features on Sand Grains by Silt Abrasion,
W77-03999 1008 2J

Computing Eolian Sand Transport from Routine Weather Data,
W77-06669 1014 2L

AERATED FLUID DRILLING

Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

AERATED LAGOONS

Organic Compounds in Pulp Mill Lagoon Discharge,
W77-02558 1005 5A

Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

Boise Measures Sludge Ultrasonically,
W77-04825 1010 5D

Stabilisation Lagoons Including Experience in Brazil. Part 1,
W77-07063 1014 5D

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

Lagoons and Oxidation Ponds, (Literature Review),
W77-11714 1023 5D

AERATED PONDS

A Study on the Intensive Carp Culture in the Artificially Aerated Pond, (In Japanese),
W77-06431 1013 8I

AERATED TURBULENT JET FLOW

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

AERATION

Composting Raw Sludge,
W77-00038 1001 5D

Discounted Cash Flow Analysis to Select Equipment,
W77-00049 1001 5D

Sanitary-Bacteriological Evaluation of the Method of Treatment at a Small Sewage Plant, (In Russian),
W77-00350 1001 5D

Phosphorus Removal from Waste Water.
W77-00575 1002 5D

Method and Apparatus,
W77-00696 1002 5D

Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

Treatment of Sewage with Special Reference to Aeration and Methods of Aeration,
W77-01459 1003 5D

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Tanks of Panel Construction.
W77-02325 1005 8A

Sewage Surface Aerator - Without Axial Thrust Thus Reducing Vibration from Waves.
W77-02342 1005 5D

Efficiency of Diffused Aeration Systems in Wastewater Treatment,
W77-02362 1005 5D

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

Modern Separation Processes for Eliminating Waste Water and Sludge Problems in Pulp and Paper Mills (Neuzeitliche Trennungsverfahren zur Beseitigung des Abwasser und Schlammproblemes in Zellstoff- und Papierfabriken),
W77-02569 1005 5D

The Aeration Conditions of Southern and Ciscaucasian Chernozems Under Irrigation, (In Russian),
W77-02927 1006 2G

Biological Treatment of Sewage Waters - Device with Internal Aeration Zone,
W77-03404 1007 5D

Integral Circular Wastewater Treatment Plant.
W77-03411 1007 5D

The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Oxygen Transfer in a 23-Meter Bubble Column,
W77-03579 1007 5D

An Economic Evaluation of Deep Tank Aeration for Wastewater Treatment,
W77-03580 1007 5D

Tall Order in Waste Treatment,
W77-03602 1008 5D

Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

Sewage Treatment Devices Particularly for Marine Applications,
W77-06113 1013 5D

Waste Water Treatment. Aeration of Waste Water by Oxygen.
W77-06203 1013 5D

The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

The Purification of Highly Polluted Waste in a Test Plant, Using Pure Oxygen,
W77-06205 1013 5D

Biological Purification of Waste Water, Using Oxygen,
W77-06206 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

A Study on the Intensive Carp Culture in the Artificially Aerated Pond, (In Japanese),
W77-06431 1013 8I

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

Sewage Aeration Impeller-With Automatic De-Icing and Anti-Clogging System,
W77-07001 1014 5D

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

Method of Treating Waste Water with Jet Nozzles,
W77-07090 1014 5D

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Experiences in Evaluating and Specifying Aeration Equipment,
W77-07899 1016 5D

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-08099 1016 5D

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

Liquid Waste Treatment Apparatus,
W77-08263 1017 5D

Occupational Characteristics and Biological Kinetic Constants of Extended Aeration Process,
W77-08270 1017 5D

Oxygen Aeration at Newton Creek,
W77-08526 1017 5D

Application of Corrugated Sheet Sprayers for Water Purification (Die Anwendung von Wellbahnrieslern in der Wasseraufbereitung),
W77-08543 1017 5F

Mechanical Surface Aerator for Effluent Purification--Has the Liquid Scooped by the Curved Elements and Ejected into the Air Above,
W77-08558 1017 5D

High Capacity Waste Water Treatment System,
W77-08566 1017 5D

AERATION

Aerators Control Lift Station Odor and Corrosion,
W77-08567 1017 5G

Trends in Small Sewage Treatment Plants,
W77-08569 1017 5D

Prospects Strong for Waste Water Oxygenation,
W77-08578 1017 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

History and Development of the Oxidation Ditch,
W77-08587 1017 5D

Plant Capacity to Increase,
W77-08597 1017 5D

Waste Water Aeration System Produces Small Bubbles.
W77-08630 1018 5D

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

Analytical Models for the Evaluation of Supplemental Aeration in Texas Estuaries,
W77-08917 1018 5B

Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

Water Purifying Systems,
W77-09808 1020 5F

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Aerating Apparatus,
W77-09819 1020 5G

Gear Motor Solves Plant's Noise Problem.
W77-09827 1020 8C

Highly Efficient Aerating System--For An Activated Sludge Effluent Treatment Plant, with Restricted Liquid Circulation in Aerating Tank.
W77-09844 1020 5D

Thurrock Test-Bed for ICI Deep Shaft,
W77-09859 1020 5D

Waste Purification Process.
W77-09865 1020 5D

Review and Evaluation of Aeration Tank Design Parameters,
W77-09870 1020 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

Mixer Cuts Solids Up and Time Down for Waste Treatment.
W77-09885 1020 5D

Aeration: Proper Sizing is Critical,
W77-09905 1020 5D

BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

Soil Aeration,
W77-10325 1021 2G

Experience with the Design and Operation of Small Extended Operation Aeration Wastewater Treatment Plants,
W77-10368 1021 5D

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

A Method for Studying Microfauna of Activated Sludge (Metoda badania mikrofauny osadu czynnego),
W77-10643 1021 5D

Effect of Alum Addition on Aerobic Digestion of Activated Sludge,
W77-10653 1021 5D

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

Biological Effluent Treatment Plant - With Three Tanks Arranged for Reversible Flow,
W77-11678 1023 5D

Aeration Tank for Activated Sludge Treatment of Waste Water - Is Smaller and Requires Less Power for a Given Treatment Capacity.
W77-11682 1023 5D

Air Blowers for Sewage and Water Treatment.
W77-11697 1023 5F

Treatment of Water and Effluent by Air Flotation.
W77-11717 1023 5D

Automatic Dissolved Oxygen Control,
W77-11752 1023 5D

Biokinetics of Low Temperature Waste Assimilation,
W77-12143 1023 5D

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

Waste Water Aerating and Clarifying Tank-Has Perforated Plate for Circulation Between Aeration and Clarification Zones.
W77-12456 1024 5D

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

Sewage Treatment Aeration Systems,
W77-12926 1024 5D

The Influence of Aeration in the Determination of Toxicity for Fish, (In German),
W77-12968 1024 5C

AERATION COEFFICIENTS

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

AERATION DIFFUSERS

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

AERATION PUMPS

A Study on the Intensive Carp Culture in the Artificially Aerated Pond, (In Japanese),
W77-06431 1013 8I

AERATION TANKS

Tanks of Panel Construction.
W77-02325 1005 8A

Aeration Tank for Activated Sludge Treatment of Waste Water - Is Smaller and Requires Less Power for a Given Treatment Capacity.
W77-11682 1023 5D

AERATION TANKS (DESIGN)

Review and Evaluation of Aeration Tank Design Parameters,
W77-09870 1020 5D

AERATION VESSEL

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

AERATOR DRIVES

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

AERATORS

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

AERIAL PHOTOGRAPHY

Geomorphological Mapping Applied to Soil Erosion Evaluation,
W77-00369 1001 2J

The Use of Color Infrared Photography for the Determination of Suspended Sediment Concentrations and Source Areas,
W77-00844 1002 2J

Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated

Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

Arizona Land Use Experiment,
W77-04245 1009 7B

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

Improving Estimates of Streamflow Characteristics Using LANDSAT-1 (ERTS-1) Imagery,
W77-06972 1014 4A

Remote Sensing Methods and Problem of Natural Resource Inventory, (In Russian),
W77-09311 1019 7B

The Citizen's Guide to North Carolina's Shifting Inlets,
W77-09327 1019 2L

Remote Sensing of Submerged Aquatic Vegetation in the Lower Cheasapeake Bay,
W77-09468 1019 2L

The Great Dismal Swamp: Management of a Hydrologic Resource with the Aid of Remote Sensing,
W77-10007 1020 2H

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

The Use of Aerial Photography in the Study of Wave Characteristics in the Coastal Zone,
W77-12573 1024 7B

Aerospace Research of the Environment. Geobotany, Soil Science, and Hydrology.
W77-12820 1024 7B

AERIAL SPRAYING

Aerial Spraying of Phreatophytes with Antitranspirant,
W77-02867 1006 3B

AEROBACTER-AEROGENES

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

AEROBIC BACTERIA

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

The Behavior of Pseudomonas Aeruginosa in Surface Water, Cooling Water and Waste Water, (In German),
W77-00347 1001 5B

Tall Order in Waste Treatment,
W77-03602 1008 5D

Stabilisation Lagoons Including Experience in Brazil. Part 1,
W77-07063 1014 5D

Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Effects of Three Environmental Variables on Sulfate Uptake by Aerobic Bacteria,
W77-09524 1019 5C

Aerobic Sewerage Digestion Process (42 C. Process),
W77-12942 1024 5D

AEROBIC CONDITIONS

Effect of Alternate Aerobic and Anaerobic Conditions on Redox Potential, Organic Matter Decomposition and Nitrogen Loss in a Flooded Soil,
W77-00306 1001 5B

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Aerobic and Anaerobic Microbial Treatment Alternatives for Shellfish Processing Wastewaters in Continuous Culture,
W77-02599 1006 5D

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Aerobic Digestion of Waste Activated Sludge at Low Temperatures,
W77-08527 1017 5D

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

Waste Water Treatment by Anaerobic Contact Filter,
W77-09862 1020 5D

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

AEROBIC DIGESTION

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Influence of Phosphorus Removal on Solids Budget,
W77-07032 1014 5D

Autothermal Aerobic Digestion,
W77-07898 1016 5D

Aerobic Digestion of Waste Activated Sludge at Low Temperatures,
W77-08527 1017 5D

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Rational Design of Aerobic Digestion Systems,
W77-08643 1018 5D

Effect of Alum Addition on Aerobic Digestion of Activated Sludge,
W77-10653 1021 5D

AEROBIC SEWAGE DIGESTION

Aerobic Type Sewage Digestion System,
W77-04681 1010 5D

AEROBIC SLUDGE *ANAEROBIC SLUDGE

Response of Oat and Spinach to Sewage Sludge Application in Soil,
W77-08495 1017 5C

AEROBIC TREATMENT

Apparatus for Aerobic Decomposition of Sewage,
W77-00570 1002 5D

A Bioassay to Assess Wastewater Toxicity to Aerobic Biological Treatment,
W77-02081 1005 5D

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Supernatant Decanting of Aerobically Digested Waste Activated Sludge,
W77-03450 1007 5D

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Aerobic Type Sewage Digestion System,
W77-04681 1010 5D

Diffusion Coefficient of Oxygen in Microbial Aggregates,
W77-04689 1010 5D

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

Waste Treatment and Solids Separating System,
W77-06104 1013 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-06108 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Waste Water Treatment. Aeration of Waste Water by Oxygen.
W77-06203 1013 5D

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Conditioning and Land Application of Aerobically Digested Sludge,
W77-07058 1014 5D

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

Autothermal Aerobic Digestion,
W77-07898 1016 5D

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Aerobic Treatment of Liquid Wastes--With Oxygen Concentration Measured and Used to Control Pump Speed Used to Force Liquid Through Venturis.
W77-08557 1017 5D

Sodium Bicarbonate Can Settle Many Waste Water Problem Upsets,
W77-08589 1017 5D

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

Rational Design of Aerobic Digestion Systems,
W77-08643 1018 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-09805 1020 5D

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Soils Infiltration and Evaporation of Wastewater by Aerobic Processes,
W77-10628 1021 5D

Behavior of Benzidine and Other Aromatic Amines in Aerobic Wastewater Treatment,
W77-11733 1023 5B

Anaerobic and Aerobic Treatment of Combined Potato Processing and Municipal Wastes,
W77-12079 1023 5D

Easing the Burden on Treatment Works.
W77-12461 1024 5G

AERODYNAMIC METHOD

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

AEROGENIC SPECIES

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

AEROLOGICAL METHODS

Experiences with the Use of the Aerological Method in Evaporation Studies in Northwestern Europe,
W77-09710 1020 2D

AEROMONADS

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

Computerized Scheme for the Identification of Aeromonads and Members of the Family Enterobacteriaceae,
W77-02758 1006 5A

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

AEROMONAS-PUNCTATA

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

AEROSOL SINKS

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

AEROSOLS

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Aerosol Production by Irrigation Equipment Used for Land Application of Waste Water,
W77-03484 1007 5A

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

Aerosol in the GATE Area and Its Radiative Properties,
W77-05131 1011 2K

Black and White Episodes,
W77-06364 1013 5A

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

Dry Deposition Loading of Lake Michigan by Airborne Particularate Matter,
W77-10758 1021 5A

Health Effects of Acid Aerosols,
W77-12813 1024 5A

AEROZINE-50

Behavior of Hydrazine Compounds in Hard and Soft Water,
W77-03042 1006 5B

AESTHETICS

Nonquantitative Methods in Water Resources Management,
W77-01348 1003 6B

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

Mc Cormick V Lawrence (Constitutionality of New York Statute Aimed at Promoting Governmental Interest in Preserving Appearance of an Area).
W77-09004 1018 6E

Our Shining Waters. A Film on Lake Eutrophication,
W77-12266 1024 6B

AFFORESTATION

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

AFRICA

Beware The Wrath Of Osiris,
W77-00177 1001 4A

The Integration of Environmental and Development Planning for Ecological Crisis Areas in Africa,
W77-00385 1001 6G

Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

The Origin of Southern African Coastal Lakes,
W77-01356 1003 2H

Power and Water for South West Africa,
W77-01382 1003 3E

Some Aquatic Vertebrates from the Namib Desert, South West Africa,
W77-01493 1003 2I

The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

Providing for Provident Dogons,
W77-01896 1004 3B

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Monsoon Rains Over West Africa,
W77-06322 1013 2B

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

A Note on Volumetric Considerations of Upwelling in the Benguela Current,
W77-06504 1013 2L

Circulation and Hydrographic Structure Over the Ghana Continental Shelf During the 1974 Upwelling,
W77-06893 1014 2L

Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Estimating Above and Below Normal Rainfall Periods Over South Africa, 1972-2000,
W77-07170 1015 2B

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

Pleistocene Glaciation in Ethiopia: New Evidence,
W77-09124 1019 2C

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Life At The Desert's Edge.
W77-09305 1019 4C

The Physico-Chemical Limnology of the Mwenda River Mouth, Lake Kariba,
W77-09614 1020 5C

Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

An Identification Key to the Water Mite Families of the Ethiopian Region,
W77-10192 1021 5A

Cloud Seeding Experimental Program in Rhodesia: 1974-75,
W77-10306 1021 3B

The Application of a Deterministic Model to a Semiarid Basin (Application du Modele a Discretisation Spatiale a un Bassin Versant Semi-Desertique),
W77-10424 1021 2A

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

Arid Lands of Sub-Saharan Africa: Appendices to the Staff Final Report.
W77-11122 1022 4C

Connections Between Climate and Desertification,
W77-11629 1023 2B

African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

Conservation in Kano,
W77-11993 1023 4B

Map of Salty Soils of Africa,
W77-12765 1024 2G

AFRICA (SOUTHERN)
Winter and Summer Insolation Patterns for Southern Africa,
W77-10195 1021 2B

AFRICAN SAHEL (MAURITANIA)
The Application of a Deterministic Model to a Semiarid Basin (Application du Modele a Discretisation Spatiale a un Bassin Versant Semi-Desertique),
W77-10424 1021 2A

AGAVE DESERTI
Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

AGE
The Age and Growth of the Largemouth Bass Micropterus Salmoides (Lacepede), in a Thermally Loaded Reservoir,
W77-05731 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

The Age of Groundwater in the Lincolnshire Limestone, England and its Relevance to the Flow Mechanism,
W77-09107 1019 2F

AGE CLASSES
Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

AGENCY DIRECTORS
Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

AGGRADATION
Simulation Studies of Flow and Sediment Transport Using a Mathematical Model, Atchafalaya River Basin, Louisiana,
W77-10867 1022 2J

Nonuniform Flow in Aggrading Channels,
W77-10963 1022 8B

AGGRADING CHANNELS
Nonuniform Flow in Aggrading Channels,
W77-10963 1022 8B

AGGREGATE BACTERIA
Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

AGGREGATES
Synthetic Aggregates Made from Sewage Plant Sludge.
W77-09924 1020 8F

Comparison of 4-1/2-and 7-In. (6-In. Nominal) Maximum Size Aggregate Mixtures for New Lock and Dam No. 26, Mississippi River,
W77-10978 1022 8F

AGGRESSIVE BEHAVIOR (LOBSTERS)
Effects of Water Temperature and Housing Conditions Upon the Aggressive Behavior of the Lobster Homarus Americanus,
W77-03050 1006 5C

AGING (BIOLOGICAL)
The Effect of Water with Different Mineralization Levels on the Animal Body, (In Russian),
W77-02270 1005 5C

AGING (PHYSICAL)
Trichlorofluoromethane in Ground Water - A Possible Indicator of Ground-Water Age,
W77-05851 1012 2F

AGING STUDIES (OIL)
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

AGRA DISTRICT (INDIA)
Quality of Underground Irrigation water in the Semi Arid Tract of Agra District,
W77-06249 1013 3C

AGRICULTURAL CHEMICALS
Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume 4, (Analytical Methods for Sewage Sludge Analysis),
W77-07614 1016 5A

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

Reduction of 2, 4-D Load in Surface Runoff Down a Grassed Waterway,
W77-10323 1021 5G

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

AGRICULTURAL DRAINAGES

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

AGRICULTURAL DROUGHT

Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

AGRICULTURAL ENERGY REQUIREMENTS

Energy, Agriculture and Waste Management,
W77-05308 1011 4C

AGRICULTURAL POLLUTION

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

AGRICULTURAL RUNOFF

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

Determining Erosion from Hawaiian Agricultural Lands,
W77-00803 1002 4D

The Universal Soil Loss Equation as Adapted to the Pacific Northwest,
W77-00804 1002 2J

Physical and Chemical Characteristics of Sediments Originating from Missouri Valley Loess,
W77-00811 1002 5B

Sediment-Phosphorus Relations in Surface Runoff from Irrigated Lands,
W77-00812 1002 5B

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

Hydraulic Simulation Using Distributed Parameters,
W77-03001 1006 2A

The Phosphorus Pollution of Waters Due to Agriculture, (In German),
W77-03134 1007 5B

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution Control Act Amendments,
W77-04347 1009 5G

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

Confined Animals and Public Environment,
W77-04617 1010 5B

Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution and Control Act Amendments on Agriculture,
W77-05047 1010 5G

Recycling Agricultural Runoff,
W77-05333 1011 5D

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Nonpoint Source Pollution from Agricultural Runoff,
W77-06003 1012 5B

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Control of Agricultural Water Pollution: A Continuing Regulatory Dilema,
W77-07233 1015 5G

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Computer Modeling for the Prediction of Water Quality from Agricultural Drainage,
W77-08934 1018 5B

Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
W77-08955 1018 5C

Simulation of Agricultural Runoff,
W77-09173 1019 5B

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

Control of Water Pollution from Cropland: Volume II--An Overview.
W77-09390 1019 5G

Manure Harvesting Practices: Effects on Waste Characteristics and Runoff,
W77-09396 1019 5D

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

Permit Program Regulations for Agricultural Activities, (NPDES), (Proposed).
W77-09560 1019 6E

Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Agricultural Legislation's Potential in Reducing Discharge of Pollutants,
W77-11395 1022 5G

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

The Effect of Feedlot Runoff on Community Structure in the Cottonwood River, Kansas,
W77-11972 1023 5C

Nutrient Transport in Runoff from Sandy Soils,
W77-12184 1023 5B

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

Pollution Probability Estimated by Small Storm Frequency,
W77-12620 1024 5B

AGRICULTURAL SOILS
Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

AGRICULTURAL WATER
Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

AGRICULTURAL WATER DEMAND
Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

AGRICULTURAL WATERSHEDS
Modeling of Soil Movement Across a Watershed,
W77-00159 1001 2J

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

Hydraulic Simulation Using Distributed Parameters,
W77-03001 1006 2A

Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Computer Modeling for the Prediction of Water Quality from Agricultural Drainage,
W77-08934 1018 5B

AGRICULTURE
Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

Erosion in 1973-74: The Record and the Challenge,
W77-00471 1001 2J

EPA and Agriculture: Establishing a Partnership,
W77-00472 1001 5G

Grown Organic Matter as a Fuel Raw Material Resource,
W77-00700 1002 3F

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

The Effect of Agriculture on the Surroundings of Lake Balaton,
W77-02776 1006 5B

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Intensity of Rainfall in Clermone-Ferrand, (In French),
W77-04032 1008 2B

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Agriculture and Clean Water (Proceedings of a Conference on Agricultural Water Pollution Control),
W77-05305 1011 5G

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

Energy, Agriculture and Waste Management,
W77-05308 1011 4C

Use of Geothermal Water for Agriculture,
W77-05309 1011 3C

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-05310 1011 3B

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Volume I-A, Technical Session Presentations, Agriculture-Environment.
W77-08408 1017 7B

Agricultural Applications of Remote Sensing--A True Life Adventure,
W77-08424 1017 3F

Practical Application of Remote Sensing in Agriculture,
W77-08425 1017 3F

Effect of Agricultural and Silvicultural Practices on the Runoff from Drainage Basins of the Nizhnedevitskaya Hydrologic Station,
W77-08835 1018 4C

The Role of Irrigation in Food Production,
W77-09535 1019 3F

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

AGRICULTURE

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

A Perspective on Flood Protection of Agricultural Lands.
W77-11850 1023 6F

Correlation of Soil Quality Under Different Levels of Agriculture, (In Russian),
W77-12487 1024 2G

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-12816 1024 3B

AGROBACTERIUM

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

AGROBACTERIUM-STELLULATUM

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

AGROCLIMATOLOGY

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

AGRONOMIC CROPS

Crop Production in the Arid Zone with Special Reference to Western Rajasthan,
W77-02869 1006 3F

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

AGRONOMY

Agrotechnical Principles for Water and Salinity Control in the Root Zone,
W77-11064 1022 3C

AGUA FRIA RIVER (AZ)

Flood Plain Information: Agua Fria River, Maricopa County, Arizona,
W77-05303 1011 4A

AIR

Composting Raw Sludge,
W77-00038 1001 5D

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Oxygen and Air Activated Sludge: Another View,
W77-03444 1007 5D

AIR BLADDER GAS CONTROL

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

AIR BLOWER INJECTION MODIFICATION

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

AIR BLOWERS

Air Blowers for Sewage and Water Treatment.
W77-11697 1023 5F

AIR BUBBLE DISEASE

The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

AIR-BUBBLE PLUMES

Two-Dimensional Air-Bubble Plume,
W77-05446 1011 8B

AIR CIRCULATION

Composting Raw Sludge,
W77-00038 1001 5D

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

Meteorological Regimes for the Classification of Aerospace Air Quality Predictions for NASA-Kennedy Space Center,
W77-12542 1024 5A

Severe Floods in Jammu and Kashmir in August 1973,
W77-12556 1024 2B

AIR DIFFUSERS

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

AIR-EARTH INTERFACES

The Use of Lysimeters in the Hydrological Investigation of the Unsaturated Zone,
W77-07780 1016 2D

AIR ENTRAINMENT

Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

AIR ENVIRONMENT

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

AIR INJECTION

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

AIR MASSES

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

AIR MONITORING

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

AIR PERMEABILITY

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

AIR PLUMES

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

AIR POLLUTION

Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

Fight Against Pollution and Nuisances in the French Steel Industry (Lutte contre les pollutions et nuisances dans la siderurgie Francaise),
W77-00749 1002 5D

Process for Gasifying Carbonaceous Solids and Removing Toxic Constituents from Aqueous Effluents,
W77-00751 1002 5D

Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

A Review of the Pollution Abatement Situation in Industry, Municipalities and Government,
W77-01522 1003 5G

Pollution Abatement in Wisconsin, Historical Development and Present Status,
W77-01524 1003 5G

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Meteorological Factors and Air Pollution in Sofia, (In Russian),
W77-01601 1004 5A

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

Government View,
W77-02051 1004 6G

Panel 'A' - Automotive Emissions,
W77-02052 1004 6G

Control of Ambient SO2 Concentrations by Noncontinuous Emission Limitation Large Coal-Fired Power Plants,
W77-02059 1004 6G

The Saga of the Environmental Standard,
W77-02060 1004 6G

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Environmental Outlook: Where We Stand, What's Ahead,
W77-02580 1006 5G

Incineration of Industrial Wastes,
W77-02596 1006 5E

Air and Water Purification - with Acid Chlorite Solution.
W77-02613 1006 5D

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

The Location of Industrial Water Users and Air Pollution: An Overlooked Relationship,
W77-02877 1006 5B

Environmental Measurements of Air and Water Quality,
W77-02880 1006 5A

Experience in Centralized Collection, Processing and Analysis of Sanitary-Hygienic Information, (In Russian),
W77-02908 1006 5A

Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Waterfowl and Acid Precipitation in Norway, (In Danish),
W77-03841 1008 5C

Forecastings a Line of Investigations of Member Countries of the Council of Mutual Economic Assistance in the Area of Environmental Hygiene, (In Russian),
W77-04016 1008 5G

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

The Paper Industry's Enviroeconomics,
W77-05700 1012 5D

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

Black and White Episodes,
W77-06364 1013 5A

Pollution Prevention, Not Control Called Key to a Clean Environment.
W77-06861 1014 5G

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

Clean Air Equals Dirty Water,
W77-09544 1019 5G

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Meteorological Regimes for the Classification of Aerospace Air Quality Predictions for NASA-Kennedy Space Center,
W77-12542 1024 5A

Environmental Management and Regional Economic Development,
W77-12583 1024 5G

Health Effects of Acid Aerosols,
W77-12813 1024 5A

AIR POLLUTION CONTROL

A Long-Range Program for Meeting the Paper Industry's Environmental Protection Technical Information Needs,
W77-10720 1021 5G

AIR POLLUTION EFFECTS

The Impact of Man on the World Nitrogen Cycle,
W77-00312 1001 5A

Effects of Pollution on Human Health,
W77-02045 1004 6G

Environmental Pollution Control and Health Benefits,
W77-02046 1004 6G

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

Atmospheric Trace Metals Over the New York Bight,
W77-04195 1009 5B

Potential Impact of the Development of Lignite Reserves on Water Resources of East Texas,
W77-04297 1009 5B

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

A Presentation of the Norwegian Effect 'Acid Precipitation-Effects on Forest and Fish',
W77-10724 1021 5C

Effects of Acidity on the Phytoplankton and Primary Productivity of Selected Northern Ontario Lakes,
W77-10733 1021 5C

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

AIR POLLUTION SOURCES

Progress in MHI's Integrated Techniques for Environmental Protection,
W77-08533 1017 5D

AIR QUALITY

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

AIR QUALITY MODEL

An Environmental Residual Allocation Model,
W77-09179 1019 5B

AIR QUALITY STANDARDS

Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

AIR-ROTARY DRILLING
Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

Air, Mist and Foam Drilling, A Look at Latest Techniques,
W77-08669 1018 8C

AIR TEMPERATURE
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

A Single Field of View Method for Retrieving Tropospheric Temperature Profiles from Cloud-Contaminated Radiance Data,
W77-06887 1014 2B

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

Precipitable Water Vapor in Atmospheres Characterized by Temperature Inversions,
W77-09330 1019 2B

Lake Ontario Atlas: Lake Temperatures,
W77-10508 1021 2H

Several Models for Water-Air Temperature Relationships of Some African Lakes,
W77-11577 1023 2H

AIR TRAJECTORIES
Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

AIR VENT
Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

AIR-WATER-INTERFACE
A Nomogram to Estimate the Heat-Exchange Coefficient at the Air-Water Interface as a Function of Wind Speed and Temperature; A Critical Survey of Some Literature,
W77-00130 1001 2D

AIR-WATER INTERFACES
Control of Mesoscale Disturbance by Synoptic Conditions,
W77-05138 1011 2H

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

Mosquito Control in the Aquatic Environment with Monomolecular Organic Surface Films,
W77-11888 1023 5G

AIRCRAFT
Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Wave Patterns Across the North Atlantic on September 28, 1974, from Airborne Radar Imagery,
W77-01921 1004 2L

Radar Imaging of Ocean Surface Patterns,
W77-01932 1004 2L

Remote Sensing of Soil Moisture with Microwave Radiometers-II,
W77-06530 1013 7B

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

An Analysis of the Management Information System for U.S. Coast Guard Aircraft Pollution Patrols,
W77-12562 1024 5A

AIRPORTS
Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

Compressed Air for Supercooled Fog Dispersal,
W77-06674 1014 3B

A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

AKSTAFA RESERVOIR
Zooplankton of the Akstafa Reservoir, (In Russian),
W77-00416 1001 2H

ALABAMA
Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

Water Resources Data for Alabama, Water Year 1975.
W77-00435 1001 7C

Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

Degradation of Pesticides by Algae,
W77-01797 1004 5C

Jefferson County V Johnson (Comprehensive Land Management and Use Program in Flood-Prone Areas Act),
W77-04931 1010 6E

Urbanization and Flooding in Shades Creek Basin, Jefferson County, Alabama,
W77-06977 1014 4C

Physical Environment Atlas of Coastal Alabama,
W77-07322 1015 2L

A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Divide Cut Drainage Structures Tennessee-Tombigbee Waterway Mississippi and Alabama; Hydraulic Model Investigation,
W77-10046 1020 8B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Water Resources Data for Alabama, Water Year 1976.
W77-12387 1024 7C

ALAMEDA ARROYO (NM)
Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

ALASKA
A Conceptual Model of Offshore Permafrost,
W77-00094 1001 2C

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

Channel Erosion Surveys Along Taps Route, Alaska, 1975,
W77-00433 1001 2J

Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
W77-00850 1002 7C

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

Commission for Ocean Advancement Through Science and Technology.
W77-01103 1003 6E

Commission on the Conference of the Law of the Sea.
W77-01104 1003 6E

Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Public Lands (Preference Rights Established for Acquisition of Tidelands and Submerged Lands).
W77-01106 1003 6E

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Environmental Impact Assessment, Water Quality Analysis, Gulf of Alaska.
W77-01966 1004 5G

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

Formulas Used to Analyze Wind-Driven Currents as First-Order Autoregressive Processes,
W77-02670 1006 2L

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Development of Hardware and Procedures for In-Situ Measurement of Creep in Sea Ice,
W77-03276 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

Breakup Flooding and Nutrient Source of Colville River Delta During 1973,
W77-03388 1007 5B

Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

Water Availability, Quality, and use in Alaska.
W77-03883 1008 6B

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

Description of Wind, Current, and Bottom Pressure Variations on the Continental Shelf in the Northeast Gulf of Alaska from February to May 1975,
W77-05154 1011 2L

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

On the Ocean Temperature Distribution in the Gulf of Alaska, 1974-1975,
W77-06320 1013 2L

Index of Surface Water Quality Records to September 30, 1973, Southwest Alaska,
W77-06328 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

State v. Sieminski (State's Right to Regulate Scallop Fishing in the High Seas).
W77-06566 1013 6E

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

Program Development Plan. Environmental Assessment of the Alaskan Continental Shelf,
W77-06878 1014 6G

Sludge Dewatering on Alaska's North Slope,
W77-07030 1014 5D

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Wind and Current Patterns in an Arctic Coast Lagoon,
W77-07323 1015 2L

Life History Notes for a Population of Slimy Sculpin (Cottus Cognatus) in an Alaskan Arctic Stream,
W77-07393 1015 5C

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

Surface Water Supply of the United States, 1966-70--Part 15. Alaska.
W77-07493 1015 7C

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

ALASKA

Uptake and Release of Petroleum by Intertidal Sediments at Port Valdez, Alaska,
W77-10123 1021 5B

Operational Applications of NOAA-VHRR Imagery in Alaska,
W77-10672 1021 4A

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Colville River Delta Fisheries Research,
W77-10902 1022 2L

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Arctic Continental Shelf Processes and Morphology Related to Sea Ice Zonation, Beaufort Sea, Alaska,
W77-11383 1022 2C

Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

Water Related Utilities for Small Communities in Rural Alaska,
W77-11763 1023 5D

Observations of Medium-Scale Features Along the Seasonal Ice Edge in the Bering Sea,
W77-11809 1023 2C

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 1: Receptors (Biota): Marine Mammals; Marine Birds; Microbiology.
W77-12964 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 2: Receptors (Biota): Fish; Plankton; Benthos; Littoral.
W77-12965 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 4: Hazards; Data Management.
W77-12966 1024 6G

ALASKAN WATERS

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

ALBEDO

Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

ALBEMARLE SOUND (NC)

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

ALBERMARLE-PAMLICO REGION (NC)

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

ALBERNI INLET (BRITISH COLUMBIA)

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

ALBERTA

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

ALBERTA (CANADA)

Effects of Pulpwood Harvesting on the Quality of Stream Waters of Forest Catchments Representing a Large Area in Western Alberta, Canada,
W77-02774 1006 5B

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

Applications of Surface Resistivity Methods,
W77-08244 1017 2F

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

ALBERTA (LAKE WABAMUN)

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

ALBUQUERQUE ARROYOS (NM)

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

ALCALIGENES

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

ALCIAN BLUE

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

ALCOHOLS

Removing Polyvinyl Alcohol from Textile Finishing Waste Water - by Adding a Binder, e.g., a Salt or Formaldehyde, to Insolubilise the Polymer.
W77-02003 1004 5D

An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

Recovering Polyvinyl Alcohol from Waste Water-By Coagulating with Borate and Inorganic Salt in Presence of Quaternary Ammonium Compound to Reduce Water Content of Gel.
W77-04460 1009 5D

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

ALDEHYDES

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

ALDRIN

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

ALEKSEEVKA (USSR)

Case of Subsurface Water Pollution by Petroleum Product Wastes, (In Russian),
W77-02273 1005 5B

ALERNATE PLANNING

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

ALEVINS

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

ALEWIFE

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

ALEWIVES

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Production of Juvenile Alewives, Alosa Pseudoharengus, at Love Lake, Washington County, Maine,
W77-10779 1021 2H

ALEXANDRIA (VA)

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

ALEXANDROVIA ONEGENSIS HRAVE

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

ALFALFA

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

Soil Water Extraction by Alfalfa,
W77-03064 1006 3C

Minimal Leaching with Varying Root Depths of Alfalfa,
W77-03066 1006 3C

Yield Response of Alfalfa Cultivars and Clones to Several pH Levels in Tatum Subsoil,
W77-03075 1006 3F

Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

Change of Organic Substances in Virgin and Arable Cinnamonic Calcareous Mountain Soils Depending on the Degree of their Erosion, (In Russian),
W77-05220 1011 2J

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

Effect of Soil Moisture Tension and Amendments on Yields and on Herbage N, P, and S Concentrations of Alfalfa,
W77-11942 1023 3F

Effect of Dried Anaerobically Digested Sewage Sludge on Yield and Element Accumulation in Tall Fescue and Alfalfa,
W77-12444 1024 5E

The Productivity, Fodder Value and Utilization of Nutrients by Alfalfa in Irrigation and Application of Macroelements and Molybdenum, (In Russian),
W77-12994 1024 3F

ALGAE

Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Causes and Alternative Solutions to the Water Quality Problems of Big Stone Lake, Western Minnesota-Northeastern South Dakota,
W77-00047 1001 5C

The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures: II. Tertiary Treatment Potential of Algae, (In Dutch),
W77-00110 1001 5D

The Growth-Promoting Activity of Some Algal Metabolites on Scenedesmus Acutus,
W77-00190 1001 5C

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

The Role of Sediment as a Modifying Factor in Pesticide-Algae Interactions,
W77-00713 1002 5C

Macrophytic Algae of the Vostok Bay (Sea of Japan), (In Russian),
W77-01142 1003 5C

Composition of the Carbohydrate Complex of Aphanizomenon Flos-Aquae (L.) Ralfs, (In Russian),
W77-01209 1003 5C

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Waserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

A Preliminary Trophic Status Classification of Some South African Impoundments,
W77-01363 1003 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

Submersed Macrophytes and Their Communities as Indicators of Water Contamination,
W77-01570 1004 5C

Degradation of Pesticides by Algae,
W77-01797 1004 5C

Algal Assays: Development and Application,
W77-01803 1004 5C

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Development of the Chlorococcal Alga Coelastrum Microporum Naeg. in Fish-Breeding Ponds, (In Russian),
W77-02248 1005 5C

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

The Influence of Waste Waters on Algae in the Open Collector of Zagreb at Ivanja Rijeka, (In Croatian),
W77-02268 1005 5C

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

ALGAE

Concentrations of Copper, Iron, Lead, Nickel and Zinc in Freshwater Algal Blooms,
W77-02813 1006 5A

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Organic Phosphorus in Lakes,
W77-03210 1007 5C

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

Algae Abstracts, A Guide to the Literature, Volume 3, 1972-1974.
W77-04111 1009 5C

Mutual Effect of Zooflagellates, Algae and Bacteria, (In Russian),
W77-04137 1009 5C

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

Aquatic Plants: A Guide for Their Identification and Control in Pennsylvania,
W77-04570 1009 5G

Negative Effects of Phosphate in Surface Waters, (In German),
W77-04593 1009 5C

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

Algological Observations in the Iddefjord and the Adjacent Fjord Areas, S.E. Norway, (In Norwegian),
W77-05196 1011 5C

Characteristics of Algoflora of Different Sections of the Teterev River, (In Ukranian),
W77-05226 1011 5C

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

Studies on the Algal Populations of the Saale River Near Jena: II. Comparison of the Seasonal Population Dynamics Above and Below the City, (In German),
W77-05606 1012 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

Effects of Zooplankton Grazing on Nuisance Algal Blooms,
W77-06398 1013 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

The Algal Flora in the Thermal Baths of Montegrotto Terme (Padua). Its Distribution Over One-Year Period,
W77-06770 1014 5C

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Primary Production and Biomass of Algae Populations in an Oligotrophic Lake in the French Massif Central, (In French),
W77-07398 1015 5C

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

Phytomicrobenthos of the Kurtli Reservoir, (In Russian),
W77-07596 1015 5C

Study of Bacteria Associated with the Rearing of Larvae of Marine Bivalves, (In French),
W77-07599 1015 5C

Degradation of Petroleum by an Alga, Prototheca Zopfii,
W77-07737 1016 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Biologically Active Metabolites of Blue-Green Algae and Their Effect on Experimental Animals, (In Russian),
W77-08749 1018 5C

A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

Interdependence Between Several Different Species of Algae Investigated in Cultures,
W77-09470 1019 5C

The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

Segmented Population Model of Primary Productivity,
W77-09512 1019 5C

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

Analysis of the Population Dynamics of Oscillatoria Redekei Van Goor in Lake Edeberg,
W77-09629 1020 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Calcium Carbonate Formation by Enteromorpha Nana Algae in a Hypersaline Volcanic Crater Lake,
W77-09787 1020 2H

Relationship Between Nitrogen Fixation (Acetylene Reduction) and the C:N Ratio in a Polluted Coral Reef. Ecosystem, Kaneohe Bay, Hawaii,
W77-10124 1021 5C

Effect of Herbicides on Photosynthetic Electron Transport and on the Growth of the Alga Scenedesmus Quadricauda,
W77-10143 1021 5C

Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

Chlorination Seems Best for Removing Suspended Solids from Lagoon Effluents,
W77-10652 1021 5D

In Vivo Excretions of the Blue-Green Algae Aphacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

Extraction of Iron from Water by Chlorella Vulgaris and Scenedesmus Quadricauda,
W77-11303 1022 5C

Depression of Primary Productivity by Aroclor 1232 in an Interspecific Lentic Algal Assembledge,
W77-11304 1022 5C

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Baciilariophyceae),
W77-11361 1022 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

The Intensive Production of Fresh Water Algae, (In Dutch),
W77-11506 1023 5C

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Remove Algae and High Costs Together,
W77-11755 1023 5D

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

Effect of Some Hydromechanical Factors on the Physiological State of Microcystis Aeruginosa Kuetz. Emend Ekenk, (In Russian),
W77-12321 1024 2I

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

The Relationship Between the Small Algal Flora of the Chain of Shallow Inlets to the South of Darss (South Baltic) and the Quality of These Waters, (In German),
W77-12717 1024 5C

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

Process for Promotion of Algae Growth in a Sewage Medium,
W77-12949 1024 5D

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

ALGAE EXTRACELLULAR PRODUCTS

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

ALGAE RECOVERY

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

ALGAL ASSAY

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

ALGAL ASSAY PROCEDURE BOTTLE TEST

Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

ALGAL ASSAYS
Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

ALGAL BLOOM
Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

ALGAL COMPETITION
Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

ALGAL CONTROL
Cladophora in the Great Lakes,
W77-00928 1002 5C

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

Algae Separation from Oxidation Pond Effluents,
W77-06184 1013 5D

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Policy Regarding the use of Copper Compounds as Aquatic Herbicides in Maine.
W77-06366 1013 5G

Wind Control of Algae Growth in Eutrophic Lakes,
W77-07497 1015 5G

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

ALGAL COPPER UPTAKE
Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

ALGAL CULTURE
Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

ALGAL GROWTH
A Preliminary Trophic Status Classification of Some South African Impoundments,
W77-01363 1003 5C

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

ALGAL GROWTH CONTROL
A Laboratory Evaluation of a Dye for the Control of Alagal Growth,
W77-01355 1003 5G

ALGAL GROWTH POTENTIAL
An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

ALGAL HYDROLYSTATE
The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

ALGAL-LYSING BACTERIA
Ecological Studies on Algal-Lysing Bacteria in Fresh Waters,
W77-09469 1019 5C

ALGAL METABOLITES
The Growth-Promoting Activity of Some Algal Metabolites on Scenedesmus Acutus,
W77-00190 1001 5C

ALGAL POISONING
Toxicity of Ammonia to Algae in Sewage Oxidation Ponds,
W77-03413 1007 5D

Biologically Active Metabolites of Blue-Green Algae and Their Effect on Experimental Animals, (In Russian),
W77-08749 1018 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

ALGAL PRODUCTION
Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

ALGAL PRODUCTIVITY
Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

ALGAL TOXINS
Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Toxicity of Ammonia to Algae in Sewage Oxidation Ponds,
W77-03413 1007 5D

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

Microcystis Toxins: Isolation, Identification, Implications,
W77-10093 1020 5A

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

ALGICIDES
Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

ALGORITHMS
Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

The Investigation of Sewer Networks by Computer,
W77-11670 1023 5G

Algorithm for Solar Radiation on Mountain Slopes,
W77-12135 1023 7B

ALININE
Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

ALIPHATIC HYDROCARBONS
Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Brine Desalination Process with Phase-Breaking by Cold Hydrocarbon Injection,
W77-04951 1010 3A

ALKALI
Influence of Salt and Alkali on Ionic Equilibria in Submerged Soils,
W77-10282 1021 2G

ALKALI CREEK (COLORADO)
Case Study of a Watershed Rehabilitation Project: Alkali Creek, Colorado,
W77-12367 1024 4D

ALKALINE PHOSPHATASE
The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

ALKALINE SOILS
Rates of Urea Hydrolysis in Five Soils of India,
W77-03632 1008 2G

Gypsum Requirement of Sodic Soils and Waters,
W77-04784 1010 2G

Studies on Soil Salinization and Alkalization as Affected by Irrigation Waters, (In Romanian),
W77-05190 1011 3C

Leaching of a Highly Saline-Sodic Soil,
W77-05788 1012 2G

Advantages of Using High Salt-Sodium Waters in the Reclamation of Gypsified Heavy-Textured Soil,
W77-11994 1023 2G

Effect of Depth and Quality of Ground Water on Soil Salinization: A Field Study with a Fluctuating Water Table,
W77-12000 1023 2G

Reclamation of a Saline-Sodic Soil by the High Saltwater-Dilution Method,
W77-12035 1023 3C

Modification of a Calcareous Sodic Soil as Affected by Leaching with Saline Water,
W77-12277 1024 3C

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

ALKALINE WATER
Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Gypsum Requirement of Sodic Soils and Waters,
W77-04784 1010 2G

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

Observations of an Ash Lagoon Spill on the New River, Virginia,
W77-12219 1023 5B

ALKALINITY
Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Sodium Bicarbonate Provides PH Relief for Digester.
W77-10607 1021 5D

Effect on Irrigation Water Quality, Sulfuric Acid and Gypsum on Plant Growth and on Some Physical and Chemical Properties of Pima Soil,
W77-11998 1023 3C

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

Various Indices for Evaluating the Effective Salinity and Sodicity of Irrigation Waters,
W77-12752 1024 3C

ALKALIS
Optimizing Gas Production, Methane Content, and Buffer Capacity in Digester Operation,
W77-10654 1021 5D

ALKALIS (BASES)
Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

ALKANES
Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

ALKYLATE DETERGENTS
The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

ALKYLATION
Microbial Alkylation of Metals,
W77-04859 1010 5C

ALKYLBENZENE SULFONATES
Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

ALKYLBENZOLSULFATES
Experimental Substantiation of the Maximal Permissible Concentrations of Triethanolamine, Ammonium and Calcium Salts of Alkylbenzosulfates in Water Bodies, (In Russian),
W77-03586 1007 5B

ALKYLDINITROPHENOLS
Toxicity of Alkyldinitrophenols to Some Aquatic Organisms,
W77-10738 1021 5C

ALKYTIN COMPOUNDS
The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

ALL-PLASTIC SUCTION LYSIMETERS
All-Plastic Suction Lysimeters for the Rapid Sampling of Percolating Soil Water,
W77-12005 1023 5A

ALLATOONA LAKE (GEO)
Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix A, Operational and Water Quality Data, 1968.
W77-03307 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix B, Operational and Water Quality Data, 1969.
W77-03308 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix C, Operational and Water Quality Data, 1970.
W77-03309 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix D, Effects of Artificial Destratification on Temperature and Dissolved Oxygen in Allatoona Reservoir.
W77-03310 1007 5G

ALLEGHENY-CUMBERLAND PLATEAU (OHIO)
A Study of Runoff from Small Rural Watersheds in Response to Completed and Proposed Land Use Changes,
W77-05728 1012 5B

ALLEGHENY PLATEAU (NY)
Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

ALLEGHENY RIVER
Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Flood Plain Information: Allegheny River, Venango County, Pennsylvania,
W77-07641 1016 4A

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

ALLEGHENY RIVER (PA)
Flood Plain Information: Allegheny River and Lillibridge Creek, Borough of Port Allegany, Pennsylvania.
W77-09369 1019 4A

ALLETHRIN
Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

ALLEVIATION
Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

ALLIGATOR JUNIPER WATERSHED CONVERSION
Clearing an Alligator Juniper Watershed with Saws and Chemicals: A Cost Analysis,
W77-01430 1003 4D

ALLIGATOR WEED
Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

ALLIGATORWEED
The Biological Control of Alligatorweed,
W77-00714 1002 5G

Water Hyacinths and Alligator Weeds for Removal of Lead and Mercury from Polluted Waters,
W77-02450 1005 5G

ALLOCHTHONOUS MATERIAL
Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

ALLOCHTHONOUS MATTER
The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

ALLOPHANE CLAYS
Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

ALLOTMENTS
Report on Tenth Annual Water Resources Research Conference, Sponsored by Office of Water Research and Technology, April 9-10, 1975.
W77-03206 1007 9D

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

ALLUVIAL AQUIFERS
Hydrogeologic Characteristics of the Missouri River Valley Flood Plain,
W77-02194 1005 2F

Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Quantifying the Natural Flushout of Alluvial Aquifers,
W77-04889 1010 5B

Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer,
W77-06658 1014 5B

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

Water-Level Records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado, 1973-77,
W77-12373 1024 7C

ALLUVIAL CHANNELS
Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

Resistance Equation for Alluvial-Channel Flow,
W77-02971 1006 8B

Properties of Channel Wandering,
W77-06305 1013 2E

Effect of Temperature on Channel Resistance,
W77-06517 1013 8B

Mathematical Modeling of Sedimentation Transients in Sand-Bed Channels,
W77-07354 1015 2J

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

A Sediment Transport Model for Straight Alluvial Channels,
W77-09104 1019 2J

Sediment Transport Models,
W77-10793 1021 2J

Nonuniform Flow in Aggrading Channels,
W77-10963 1022 8B

Streamflow Transmission Losses in Western Kansas,
W77-10966 1022 4A

Pulsing Flow in Steep Alluvial Streams,
W77-11206 1022 8B

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

ALLUVIAL CHRONOLOGY
Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

ALLUVIAL STREAMS
Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

Streamflow Transmission Losses in Western Kansas,
W77-10966 1022 4A

Pulsing Flow in Steep Alluvial Streams,
W77-11206 1022 8B

ALNUS-GLUTINOSA
Growth and Water Economy of the Tree Species Alnus and Salix, (In German),
W77-09233 1019 2I

ALOSA PSEUDOHARENGUS
Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

ALOSA SP
Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

ALPHA-HEXACHLOROCYCLOHEXANE
The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

ALPINE
Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

ALPINE GLACIERS
Study of an Ice Core to the Bedrock in the Accumulation Zone of an Alpine Glacier,
W77-08846 1018 2C

ALPINE LAKES
Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

The Vertical Distribution of Plankton Rotifers in a Small Alpine Lake with a Sharp Oxygen Depletion (Lunzer Obersee),
W77-07456 1015 5C

ALPS
The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

ALTERATION OF FLOW
Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Obstructions in Streams,
W77-06079 1012 6E

The Application of Surface Water Rules in Urban Areas,
W77-10459 1021 6E

ALTERNATE PLANNING

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

ALTERNATE TERMINAL ELECTRON ACCEPTORS

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

ALTERNATE WATER USE

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

ALTERNATING-DIRECTION IMPLICIT METHOD

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

ALTERNATIVE CHEMICALS PROGRAM

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

ALTERNATIVE COSTS

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

Say Goodbye to Ocean Dumping,
W77-08969 1018 5G

A Note on the Use of Economic Incentives in Water Pollution Abatement,
W77-12718 1024 5G

ALTERNATIVE ENERGY SUPPLIES

Environmental Factors in Producing Supplemental Fuels,
W77-00390 1001 6G

ALTERNATIVE FUTURES

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

ALTERNATIVE PLANNING

Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

Physical and Economic Parameters for Planning Regional Wastewater Treatment Systems,
W77-04010 1008 5D

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Surface-Water Quality Management Models,
W77-05014 1010 5G

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Flood Management: Who Benefits and Who Pays,
W77-08303 1017 6F

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

Urban Water Planning, A Bibliography, Volume 2.
W77-09264 1019 6B

Water Resources Assessment Methodology (WRAM)--Impact Assessment and Alternative Evaluation,
W77-09985 1020 6G

Effect of Land Use Management on Flood Predictions,
W77-10181 1021 4C

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

An Evaluation of Economic and Demographic Data Useful in Water Resources Planning.
W77-10295 1021 6B

A Multicriteria Analysis for Water Resource and Land Use Development,
W77-11773 1023 6A

An Illustrative Example of the Use of Multiattribute Utility Theory for Water Resource Planning,
W77-12169 1023 6A

ALTERNATIVE WATER USE

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

An Energy Accounting Evaluation of Several Alternatives for Hydropower and Geothermal Development,
W77-09057 1018 6B

An Evaluation of Economic and Demographic Data Useful in Water Resources Planning.
W77-10295 1021 6B

ALUM
Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

Anaerobic Digester Supernatant Does not have to be a Problem,
W77-05317 1011 5D

Aiding of Suspended Solids Removal by Polyelectrolytes (Zastosowanie polielektrolitow do stracania zawiesin w wodach dolowych),
W77-05506 1011 5D

Recycling of Alum Used for Phosphorus Removal in Domestic Waste Water Treatment,
W77-09847 1020 5D

Chemical Treatment of Sewage,
W77-09892 1020 5D

ALUM COAGULATION
Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

ALUM PRECIPITATION
The Solubility of Particulate Phosphorus in the Effluent From Alum Treatment of Wastewater and Phosphorus Solutions,
W77-08500 1017 5D

ALUMINUM
Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Dissolution of Illite--A Possible Mechanism of Potassium Release,
W77-02283 1005 2G

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous* Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: I. Swelling and Aggregate Stability After Drying,
W77-03073 1006 2G

Yield Response of Alfalfa Cultivars and Clones to Several pH Levels in Tatum Subsoil,
W77-03075 1006 3F

Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Behavior of Chromium in Soils: I. Trivalent Forms,
W77-09432 1019 2G

Effect of Surfactants on the Determination of Aluminum in Waters,
W77-10151 1021 5A

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Aluminum-26 in Deep-Sea Sediment,
W77-11538 1023 5B

Water Treatment Using Oxidised Sludge.
W77-11677 1023 5D

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

ALUMINUM ALLOYS
Brisbane Council's First in Australia at Sewerage Treatment Plant.
W77-11719 1023 5D

ALUMINUM COMPOUNDS
Studies on the Treatment of Spent Liquors from Mitsumata and Manila Hemp Pulping, (In Japanese),
W77-12348 1024 5D

ALUMINUM HYDROXIDE
Organic Phosphorus in Lakes,
W77-03210 1007 5C

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

ALUMINUM PHOSPHATE
Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

ALUMINUM RECYCLING
Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

ALUMINUM SALTS
Precipitation of Phosphate from Solution Using Aluminum Salt,
W77-00871 1002 5D

Method for Improving the Filterability of Aluminum Salts Precipitated from Aqueous Solutions,
W77-11930 1023 5D

ALUMINUM SULFATE
Methods for Improvement of Trickling Filter Plant Performance: Part II - Chemical Addition,
W77-12078 1023 5D

ALUMS
Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

AMAZON RIVER
Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

Tidal and Current Prediction for the Amazon's North Channel Using a Hydrodynamical-Numerical Model,
W77-07743 1016 2L

Transport Phases of Transition Metals in the Amazon and Yukon Rivers,
W77-10328 1021 2J

AMAZONIAN PRAIRIES (BRAZIL)
Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

AMBIENT AIR QUALITY
Government View,
W77-02051 1004 6G

AMBIENT STANDARDS
The Saga of the Environmental Standard,
W77-02060 1004 6G

AMBIENT TEMPERATURE
The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-06275 1013 5C

AMELIORATION TECHNIQUES
Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

AMERICAN BULLFROG
Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

AMERICAN FALLS RESERVOIR (IDAHO)
The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

AMERICAN FROZEN FOOD INSTITUTE
American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

AMERICAN LOBSTER
Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

AMERICAN OYSTER
Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

AMERICAN RIVER DRAINAGE BASIN
Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

AMERICAN RIVER PARKWAY (SACRAMENTO CALIFORNIA)
Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

AMERICAN SHAD
Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

AMERICAN UNIVERSAL SOIL LOSS EQUATION
Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

AMERICIUM
The Distribution of Transuranic Elements in a Freshwater Pond Ecosystem,
W77-04510 1009 5C

Americium in the Marine Environment-Relationships to Plutonium,
W77-04517 1009 5C

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

AMES (IOWA)
Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

AMINES
Carcinogenic Nitrosamines and Their Precursors in Fresh and Polluted Waters,
W77-00146 1001 5A

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

Toxicological Effects of Diethylnitrosamine (DENA) in Guppies (Lebistes Reticulatus), (In German),
W77-04100 1008 5C

Experimental Data for the Hygienic Standardization of Diphenylamine and Diphenyldiethylurea in Water Bodies, (In Russian),
W77-07700 1016 5G

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

AMINO ACIDS
Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

Effect of Exogenous Amino Acids on Productivity of Certain Higher Hydrophytes, (In Russian),
W77-02251 1005 5C

Amino Acid and Fractional Composition of Protein of the Vegetative Mass of Corn at Different Levels of Mineral Nutrition and Water Supply, (In Russian),
W77-02918 1006 2I

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

Content of Free Amino Acids in Irrigated and Unirrigated Typical Sierozem Soils, (In Russian),
W77-05045 1010 2G

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

AMINO G ACID
An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

AMINOBIPHENYLS
4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

AMINOTRIAZOLE
On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Waserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

AMITROLE
The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

AMMODYTES MARINUS
The Distribution and Long Term Changes in Abundance of Larval Ammodytes Marinus (Raitt) in the North Sea,
W77-05835 1012 2L

AMMONIA
Ozonation of Ammonia in Wastewater,
W77-00553 1002 5D

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Fight Against Pollution and Nuisances in the French Steel Industry (Lutte contre les pollutions et nuisances dans la siderurgie Francaise),
W77-00749 1002 5D

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: I. Reducing Ammonia Volatilization,
W77-01517 1003 5G

The Effect of Ammonia and Ammonia-Sulfur Solutions on Nitrification Rates and Chemical Properties of a Calcareous Soil,
W77-02276 1005 2G

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Ammonia Removal from Wastewater by Ligand Exchange,
W77-03367 1007 5D

Toxicity of Ammonia to Algae in Sewage Oxidation Ponds,
W77-03413 1007 5D

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

The Effect of Ammonia Exposure on Gill Structure of the Rainbow Trout (Salmo Gairdneri),
W77-04056 1008 5C

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

Uptake of Dissolved Ammonium and Nitrate Ion by the Fry of Common Carp, Crucian Carp and Loach from Surrounding Water, (In Japanese),
W77-07314 1015 5C

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Coal Distn. Waste Liquor Purificn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

Waste-Water Process,
W77-08100 1016 5D

Treatment of Aqueous Condensates and Effluents from Coking Plants--With Alkali Salts of Weak Acids, to Expel Ammonia.
W77-08275 1017 5D

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Ammonia Transport in Water Saturated Polymeric Films,
W77-09274 1019 5A

Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

Identification of the Virucidal Agent in Waste Water Sludge,
W77-09897 1020 5A

Effect of Sorbed Organics on the Efficiency of Ammonia Removal by Chloramine-Carbon Surface Reactions,
W77-09902 1020 5D

Gaseous Loss of Ammonia from Sulfur-Coated Urea, Ammonium Sulfate, and Urea Applied to Calcareous Soil (PH 7.3),
W77-10287 1021 2G

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Ammonia Toxicity,
W77-10946 1022 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

Utilization of Sedimentary Ammonia by Potamogeton Nodosus and Scirpus,
W77-11479 1022 5C

Variations in Nitrogen and Organics in Wastewaters,
W77-11735 1023 5D

A Kinetic Analysis of Ammonia Removal by Chloramine Conversions on Activated Carbon,
W77-12141 1023 5D

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

Conventional Tertiary Treatment,
W77-12474 1024 5D

The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glycera Dibranchiata,
W77-12642 1024 5C

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

AMMONIA COMPOUNDS

Apparatus and Process for Removing Ammonia Nitrogen from Waste Water,
W77-07008 1014 5D

AMMONIA IN WASTEWATER

Ammonia Transport in Water Saturated Polymeric Films,
W77-09274 1019 5A

AMMONIA-NITRATE

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

AMMONIA NITROGEN

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: V. Soil Water Content and Method of Nitrogen Application,
W77-09960 1020 2G

AMMONIA REMOVAL
A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

AMMONIA TOXICITY
Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

Ammonia Toxicity,
W77-10946 1022 5C

AMMONIA VOLATILIZATION
Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

AMMONIA VOLATILIZATION REDUCTION
Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: I. Reducing Ammonia Volatilization,
W77-01517 1003 5G

AMMONIFICATION
Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: I. Reducing Ammonia Volatilization,
W77-01517 1003 5G

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

AMMONIFYING BACTERIA
A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

AMMONIUM
Corn Growth as Affected by Ammonium vs. Nitrate Absorbed from Soil,
W77-12124 1023 3F

AMMONIUM ANALYSIS
The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

AMMONIUM CHLORIDE
Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

AMMONIUM COMPOUNDS
Effect of Abate (Diphos) on the General Sanitary Conditions of Water Bodies: II, (In Russian),
W77-01607 1004 5D

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
W77-03633 1008 3C

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
W77-08984 1018 5G

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

The Influence of Cation Exchange Capacity and Depth of Incorporation on Ammonia Volatilization from Ammonium Compounds Applied to Calcareous Soils,
W77-09961 1020 2G

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

The Toxicity of Ammonium Molybdate to Marine Invertebrates,
W77-12653 1024 5C

AMMONIUM CONTENT
The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

AMMONIUM DIFFUSION
Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

AMMONIUM-NITROGEN
Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

The Changes in Inorganic Nitrogen Concentration of Drinking Water from Wells Over a Two Year Period in Ani-Machi, Ibaraki Prefecture, (In Japanese),
W77-07570 1015 5B

AMMONIUM SALTS
Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

AMMUNITION PLANT
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

AMMUNITION WASTES
The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

AMOEBAE
Study of Free Living Amoebae in the Waters of Strabourg: Preliminary Report, (In French),
W77-08016 1016 5A

AMORPHOUS SILICA
Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

AMPERE GLACIER
Heat Balance in the Ablation Area of the Ampere Glacier (Kerguelen Islands),
W77-06511 1013 2C

AMPHIBIANS
Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

AMPHIPOD GAMMARUS OCEANICUS
Effects of Oil on the Amphipod Gammarus Oceanicus,
W77-03777 1008 5C

AMPHIPODA
Effects of Oil on the Reproduction of the Amphipod Gammarus Oceanicus,
W77-00188 1001 5C

Toxicity of Paraquat to Paracalliope Fluviatilis (Amphipoda),
W77-00666 1002 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Effects of Oil on the Amphipod Gammarus Oceanicus,
W77-03777 1008 5C

Effects of Power-Plant Entrainment Temperatures on Oxygen Consumption Patterns of Amphipods and Grass Shrimp,
W77-05553 1011 5C

AMPHIPODA

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Thermal Tolerance of Two Species of Gammarus,
W77-09730 1020 5C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

Ecology of the Amphipod Pontogammarus Crassus (G. O. Sars) in the Kiev Reservoir, (In Russian),
W77-12930 1024 2H

AMPHIPODS

Distribution of Amphipoda in the Dniester Estuary and its Possible Changes in Connection with the Regulation of the Dniester River, (In Russian),
W77-02914 1006 5C

Survival and Reproduction of Gammarus spp. (Amphipoda) Following Short-Term Exposure to Elevated Temperatures,
W77-07125 1015 5C

AMPICILLIN

Studies on the Application of Ampicillin for Pseudotuberculosis of Cultured Yellowtails: I. In Vitro Studies on Sensitivity, Development of Drug-Resistance and Reversion of Acquired Drug-Resistance Characteristics, (In Japanese),
W77-10992 1022 5C

AMUR BASIN (USSR)

Growth of the Yellowcheek Elopichthys Bambusa (Rich.) in the Amur Basin, (In Russian),
W77-01229 1003 2I

AMYLOLYSIS ACTIVITY

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

ANABAENA

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Biologically Active Metabolites of Blue-Green Algae and Their Effect on Experimental Animals, (In Russian),
W77-08749 1018 5C

Filtering Rate Inhibition of Daphnia Pulex in Wintergreen Lake Water,
W77-09910 1020 5C

ANABAENA-AFFINIS

Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

ANABAENA CIRCINALIS

Physical and Chemical Parameters Associated with Phytoplankton Abundance and Periodicity in a Fertilized Fish Pond,
W77-08922 1018 5C

ANABAENA FLOS-AQUAE

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

ANACOSTIA RIVER

Land Use Classification for Hydrologic Models using Interactive Machine Classification of Landsat Data,
W77-08074 1016 7B

ANACYSTIS NIDULANS

A Laboratory Evaluation of a Dye for the Control of Alagal Growth,
W77-01355 1003 5G

In Vivo Excretions of the Blue-Green Algae Anacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

ANADROMOUS FISH

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

ANAEROBIC BACTERIA

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

Phytotoxic Properties of Anaerobic Bacteria of Irrigated Soils, (In Russian),
W77-01590 1004 5C

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

ANAEROBIC CONDITIONS

Effect of Alternate Aerobic and Anaerobic Conditions on Redox Potential, Organic Matter Decomposition and Nitrogen Loss in a Flooded Soil,
W77-00306 1001 5B

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

Aerobic and Anaerobic Microbial Treatment Alternatives for Shellfish Processing Wastewaters in Continuous Culture,
W77-02599 1006 5D

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Anaerobic Filter Treats Waste Activated Sludge,
W77-07078 1014 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Sewers Under Attack: The Hydrogen Sulphide Problem,
W77-10548 1021 5D

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Effects of Dissolved Oxygen on Survival and Behavior of Selected Fishes of Western Lake Erie,
W77-11514 1023 5C

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Easing the Burden on Treatment Works.
W77-12461 1024 5G

ANAEROBIC CONTACT FILTER

Waste Water Treatment by Anaerobic Contact Filter,
W77-09862 1020 5D

ANAEROBIC DIGESTERS

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

ANAEROBIC DIGESTION

Powdered Activated Carbon Improves Anaerobic Digestion,
W77-00067 1001 5D

Improved Anaerobic Digestion of Solid Urban Waste,
W77-01462 1003 5D

Anaerobic Digestion of Lime Sewage Sludge,
W77-02750 1006 5D

Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

Methane From Farm Wastes,
W77-04630 1010 5B

Keeping up with Sludge at WPCF,
W77-04692 1010 5D

How to Keep an Old Plant Running,
W77-04694 1010 5D

Anaerobic Digester Supernatant Does not have to be a Problem,
W77-05317 1011 5D

Georgia Plant is a Peach,
W77-06136 1013 5D

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

Elimination of Anaerobic Digester Supernatant,
W77-07059 1014 5D

Survey of Anaerobic Digestion Supernatant Treatment Alternatives,
W77-07903 1016 5D

Sodium Bicarbonate Can Settle Many Waste Water Problem Upsets,
W77-08589 1017 5D

Higher Gas Yields and Reduced Retention Times Obtained from Anaerobic Digester,
W77-08600 1017 5D

Anaerobic Digestion of Rum Stillage,
W77-09416 1019 5D

Energy Recovery in Brewery Industry,
W77-10342 1021 5D

Sodium Bicarbonate Provides PH Relief for Digester.
W77-10607 1021 5D

Optimizing Gas Production, Methane Content, and Buffer Capacity in Digester Operation,
W77-10654 1021 5D

Dynamic Models and Computer Simulation of Wastewater Treatment Systems,
W77-10814 1022 5D

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

Sludge Processing to Optimize Digestibility and Energy Production,
W77-11709 1023 5E

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

Current Sludge Research at the WRC,
W77-11741 1023 5E

Anaerobic and Aerobic Treatment of Combined Potato Processing and Municipal Wastes,
W77-12079 1023 5D

Effect of Dried Anaerobically Digested Sewage Sludge on Yield and Element Accumulation in Tall Fescue and Alfalfa,
W77-12444 1024 5E

Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

Anaerobic Digestion Process,
W77-12954 1024 5D

Anaerobic Waste Treatment Facility,
W77-12956 1024 5D

ANAEROBIC LAGOONS

Infiltration Characteristics from Anaerobic Lagoons,
W77-11974 1023 5B

ANAEROBIC TREATMENT

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Stabilisation Lagoons Including Experience in Brazil. Part 1,
W77-07063 1014 5D

Effects of Anaerobically Digested Sewage Sludge on Organic Matter in Soil and Soil Water,
W77-09598 1019 5C

ANAEROGENIC SPECIES

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

ANALGOLOGICAL SURVEYS

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

ANALOG COMPUTERS

Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

ANALOG MODELS

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York,
W77-07479 1015 2F

Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

Effect of Openings on Inflow into Corrugated Drains,
W77-12305 1024 8B

ANALTICAL TECHNIQUES

Elemental Distribution Diagrams for Biological Wastewater Treatment,
W77-03429 1007 5D

ANALYSIS

Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

Study of Physical, Settling, and Thickening Characteristics of a Sludge,
W77-06197 1013 5D

Metals in the Aqueous Effluents from Municipal Incinerators and an Incinerator-Residue Processing Plant,
W77-09600 1019 5A

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

A Kinetic Analysis of Ammonia Removal by Chloramine Conversions on Activated Carbon,
W77-12141 1023 5D

ANALYSIS

Method and Apparatus for Collecting Fluid Contaminants,
W77-12686 1024 5A

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

ANALYTICA TECHNIQUES
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

ANALYTICAL ERRORS
Computing Derivatives from Equally Spaced Data,
W77-05437 1011 2B

The Measurement of 1 Min Rain Rates from Weighing Raingage Recordings,
W77-05438 1011 2B

ANALYTICAL METHODS
Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

ANALYTICAL TECHNIQUE
The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

ANALYTICAL TECHNIQUES
Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

Determination of Lagrangian Deformations from Analysis of Current Followers,
W77-00136 1001 2L

Hydrologic Engineering Methods for Water Resources Development, Volume 3, Hydrologic Frequency Analysis,
W77-00169 1001 4A

Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

Study of the Erosion Stability of the Plow Layers of Gray Forest Soils of the Northern Forest-Steppe, (In Russian),
W77-00514 1001 4D

Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

Simple Method Measures Suspended Solids,
W77-00596 1002 5A

Applications of Automatic Equipment to Water Analysis,
W77-00597 1002 5A

Precision Aquarator Speeds COD Determination,
W77-00605 1002 5A

Development of Water Quality Sampling Programs,
W77-00618 1002 5A

Hydrogen Sulfide in Bottom Water Near a Sewage Sludge Dumping Site,
W77-00620 1002 5A

Self-Monitoring Procedures: Basic Laboratory Skills,
W77-00624 1002 5A

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

A Passive Flow Measurement System for Storm and Combined Sewers,
W77-00628 1002 5D

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in Water-Determination of Components and Toxicity of the System-II, Solution by Computer,
W77-01260 1003 5B

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

Molecular Forms of Arsenic in the Environment,
W77-01302 1003 5A

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Potential Roles of Metal-Ligands in the Marine Environment,
W77-01308 1003 5B

Structure-Activity Relationships Applied,
W77-01314 1003 5C

A Comparison of Methods for the Analysis of the Relationship Between Chemical and Biological Properties of Chemicals,
W77-01319 1003 5A

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

Design and Preliminary Evaluation of an Improved Artificial Substrate Sampler for Aquatic Macroinvertebrates,
W77-01530 1003 7B

Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Performance Characteristics for the Spectrophotometric Determination of Total Iron in Freshwater Using Hydrochloric Acid,
W77-01642 1004 5A

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

Algal Assays: Development and Application,
W77-01803 1004 5C

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Determination of Small Quantities of Vinyl Acetate in Air, Water, Alcoholic Solutions and Food Products, (In Russian),
W77-02117 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring, Appendices,
W77-02149 1005 5A

Optical Remote Sensing of Water Pollutants,
W77-02192 1005 5A

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

Determination of Chemical Oxygen Demand (Die Bestimmung Der Chemischen Oxidierbarkeit),
W77-02380 1005 5A

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Removal Benefits: It Can Be Too Costly,
W77-02436 1005 5D

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Applications of Direct Aqueous Injection Gas Chromatography and Freeze Concentration for the Determination of Organic Compounds in Water and Waste Waters,
W77-02809 1006 5A

A Method for the Determination of Mercury in Sediments by the Automated Cold Vapor Atomic Absorption Technique after Digestion,
W77-02811 1006 5A

New Automated Colorimetric Method for the Determination of Chloride Using Chromotropic Acid,
W77-02812 1006 5A

Analysis of Emissions from Outboard Two Cycle Marine Engines,
W77-02823 1006 5B

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Lake Phosphorus Loading Graphs: An Alternative,
W77-03377 1007 5C

Cyanophage Analysis as a Biological Pollution Indicator-Bacterial and Viral,
W77-03460 1007 5A

Use of Intrinsically Safe Instrumentation.
W77-03462 1007 5A

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

A New Method of Automatic Determination of Nitrate in Waste Waters and Polluted Surface Waters (Ein Neues Verfahren Zur Automatischen Nitrat-Bestimmung in Abwaessern und Belasteten Oberflaechenwaessern),
W77-03466 1007 5A

Nitrate Monitoring.
W77-03468 1007 5A

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

Investigation of Oxygen Transfer to Slime as a Surface Reaction,
W77-03476 1007 5B

Useful Modeling Concepts for the FCD Water System,
W77-03524 1007 6A

On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

Sulphide Measurement Using Ammonium Molybdate,
W77-03657 1008 5A

Microanalyse de L'Incorporation d'un Metal Lourd Dans les Ecailles d'un Poisson,
W77-03663 1008 5A

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

Electron Capture Gas Chromatographic Methodology for the Quantitation of Polychlorinated Biphenyls: Survey and Compromise,
W77-03779 1008 5A

Simultaneous Determination of Total, Non-Carbonate and Carbonate Water Hardness by Direct Potentiometry,
W77-03780 1008 5A

Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

Flood Studies Report.
W77-04244 1009 2A

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Analytical Methods,
W77-04434 1009 5C

Measurements for Modeling Radionuclide Transfer in the Aquatic Environment,
W77-04515 1009 5B

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Simulated Field Study for I/I Analysis,
W77-04662 1010 5D

BOD as Pollutional Parameter,
W77-04715 1010 5A

4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

Prediction of Vinyl Chloride Monomer Migration from Rigid PVC Pipe,
W77-04720 1010 5B

Why Simulation,
W77-04725 1010 2E

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

ANALYTICAL TECHNIQUES

Environmental Impact of Urban Stormwater Runoff,
W77-04731 1010 5B

Quantity Aspects of Urban Stormwater Runoff,
W77-04732 1010 4A

Quality Aspects of Urban Stormwater Runoff,
W77-04733 1010 5B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-04736 1010 2E

The WRE Storm Model,
W77-04737 1010 5B

The EPA Stormwater Management Model,
W77-04738 1010 5B

Decision-Making for Water Quantity and Quality Control,
W77-04739 1010 5D

Selected Case Studies Using Stormwater Management Models -- Quanitity aspects,
W77-04740 1010 2E

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

Three Case Studies on the Application of the Storm Water Management Model,
W77-04742 1010 5B

Comparative Analysis of Urban Stormwater Models,
W77-04743 1010 5B

Water Temperature Forecasting and Estimation Using Fourier Series and Communication Theory Techniques,
W77-04774 1010 2E

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Determining Suspended Sediment Loads from Turbidity Records,
W77-04988 1010 2J

Measurement and Forms of Nitrogen and Phosphorous,
W77-05169 1011 5A

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomer ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsuite),
W77-05320 1011 2E

A Dynamic Model and Computer Compatible Control Strategies for Waste Water Treatment Plants,
W77-05322 1011 5D

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

Computing Derivatives from Equally Spaced Data,
W77-05437 1011 2B

A Specific Conductance Method for Quality Control in Water Analysis,
W77-05453 1011 2K

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

Heat Content of North Mississippi Reservoirs,
W77-06088 1012 5B

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

A Method to Determine Personal Values,
W77-06354 1013 6B

Standard Procedures for Biological Evaluation.
W77-06374 1013 5A

Research Related to Biological Evaluation of Complex Wastes,
W77-06476 1013 5A

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Computing Eolian Sand Transport from Routine Weather Data,
W77-06669 1014 2L

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

Drugs and Drug Metabolites as Environmental Contaminants: Chlorophenoxyisobutyrate and Salicylic Acid in Sewage Water Effluent,
W77-07045 1014 5A

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-07072 1014 5B

Concentration and Determination of Trace Organic Pollutants in Water,
W77-07098 1014 5A

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Design of Gravity Dams, Design Mnual for Concrete Gravity Dams,
W77-07151 1015 8A

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

Water Quality and Chemical Models,
W77-07246 1015 5C

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

Objective Analysis of Snow Cover Fields,
W77-07678 1016 2C

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Effects of Polyelectrolytes and Clay Colloids on Carbon Adsorption,
W77-07926 1016 5D

The Activated Sludge Process Without Preliminary Purification. Results of Pilot Experiments in the Purification Plant Karlsruhe (Das Belebungsverfahren ohne Vorreinigung. Ergebnisse der Versuche im halbtechnischen Massstab im Klaerwerk Karlsruhe),
W77-07927 1016 5D

Easier Identification with MPN Procedure,
W77-07928 1016 5A

Microbial ATP Studies,
W77-07978 1016 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Planktonic Microbial Heterotrophy: Its Significance to Community Biomass Production,
W77-07993 1016 5C

Optimal Operation of Water Resources Systems--1,
W77-08047 1016 4A

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Determination of Pyridine in Farm Crops and Fish, (In Russian),
W77-08126 1017 5A

Measurement of Flash Floods in the United States--State of the Art,
W77-08161 1017 2E

Flash Floods in Spain (Les Crues Brutales En Espagne),
W77-08247 1017 2E

Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Enterovirus Types in Israel Sewage,
W77-08519 1017 5A

Rapid Agar Pour-Plate Technique for Detection and Enumeration of Faecal Coliforms in Sewage,
W77-08520 1017 5A

Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

Determination of BOD After Freezing Water Samples (Bestimmung des BSB nach Einfrierung der Wasserproben),
W77-08546 1017 5A

Predicting Performance of Pipe Culverts Buried in Soil,
W77-08622 1018 8B

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

Finite Element Solution of the Two-Dimensional Unsaturated Flow Equation,
W77-08923 1018 2G

Numerical Solution for Flow Under Sluice Gates,
W77-09012 1018 8B

Criterion to Choose Step Length for Some Numerical Methods Used in Hydrology,
W77-09110 1019 2E

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 1.
W77-09259 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 2,
W77-09260 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 3.
W77-09261 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 4.
W77-09262 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 5.
W77-09263 1019 5A

An Improved Technique for Measuring Soil pH,
W77-09295 1019 2G

Transform Approach to Solution of Groundwater Flow Equations,
W77-09318 1019 2F

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

A Suggested Technique for the Analysis of Airborne Continuous Ice Nucleus Data,
W77-09361 1019 3B

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

Evaluation of Process Design Parameters for Phosphorus Removal from Domestic Waste Waters by Chemical Clarification,
W77-09602 1020 5D

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Gas Stripping, Sorption, and Thermal Desorption Procedures for Preconcentrating Volatile Polar Water-Soluble Organics from Water Samples for Analysis by Gas Chromatography,
W77-09746 1020 5A

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Method for the Determination of the Conditionability of Sewage Sludge (Erarbeitung von Methoden zur Ermittlung der Konditionierbarkeit von Klaerschlaemmen),
W77-09884 1020 5D

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

The Influence of Zooplankton Anesthetising Substance Physostigmine Salicylicum on Photosynthesis,
W77-10149 1021 5C

Effect of Surfactants on the Determination of Aluminum in Waters,
W77-10151 1021 5A

The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

Handbook for Sampling and Sample Preservation of Water and Wastewater,
W77-10539 1021 5A

Automatic Network Analysis by Microcomputer.
W77-10544 1021 5B

Electrobiochemical Neutralization of Acid Mine Water,
W77-10569 1021 5B

A Method for Studying Microfauna of Activated Sludge (Metoda badania mikrofauny osadu czynnego),
W77-10643 1021 5D

Water Analysis,
W77-10648 1021 5A

Approaches to Digital Snow Mapping with LANDSAT-1 Data,
W77-10677 1021 2C

Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

Snowcover Mapping by Machine Processing of SKYLAB and LANDSAT MSS Data,
W77-10681 1021 2C

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

Acidity in Rainfall,
W77-11138 1022 5A

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

Two-Temperature Membrane Filter Method for Enumerating Fecal Coliform Bacteria from Chlorinated Effluents,
W77-11728 1023 5A

Membrane Filter Technique for the Quantification of Stressed Fecal Coliforms in the Aquatic Environment,
W77-11736 1023 5A

Development of High Pressure Liquid Chromatographic Techniques,
W77-11908 1023 5A

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glvcera Dibranchiata,
W77-12642 1024 5C

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

ANAS PLATYRHYNCHOS
The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

ANAS SPP.
Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

ANAX SP.
A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

ANCESTRAL CHANNELS
Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

ANCHORAGE (AK)
Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

ANCHORAGE (ALASKA)
Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
W77-00850 1002 7C

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

ANCHOVETA
Food of the Larval Anchoveta Engraulis Ringens J.,
W77-05845 1012 2L

ANDAMAN SEA
Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

ANDHRA PRADESH (INDIA).
The Study of Droughts by Water Budget Method over Andhra Pradesh,
W77-01130 1003 2B

ANDROSCOGGIN RIVER BASIN (ME-NH)
Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

ANDROSCOGGIN RIVER (ME)
Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

ANDROSCOGGIN RIVER (NH-ME)
Of Slime and the River,
W77-01084 1003 5B

ANEMOMETERS
Electronic Sensor for Low-to-Medium Windspeeds,
W77-03099 1007 7B

ANEMONEFISH
Notes on the Nesting Success and Fecundity of the Anemonefish Amphiprion Clarkii at Miyake-Jima, Japan,
W77-06763 1014 5C

ANESTHESIA
Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

ANESTHETICS
Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

ANGLIAN WATER AUTHORITY (ENGLAND)
The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

ANGUILLA ANGUILLA
Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

ANHOLT ISLAND (DENMARK)
Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

ANIMAL BEHAVIOR
LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Effects of Water Temperature and Housing Conditions Upon the Aggressive Behavior of the Lobster Homarus Americanus,
W77-03050 1006 5C

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Physiological Responses of Estuarine Organisms to Chlorine,
W77-11283 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

ANIMAL BEHAVIOUR

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

ANIMAL BIOCHEMISTRY

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

ANIMAL DISEASES

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

A Hygienic Evaluation of Boron in Potable Waters, (In Russian),
W77-10582 1021 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

ANIMAL GROUPINGS

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

ANIMAL GROWTH

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Environmental Factors Affecting Survival and Growth of Vibrio Parahaemolyticus. A Review,
W77-06765 1014 5C

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

ANIMAL HEALTH

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

ANIMAL METABOLISM

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

ANIMAL NUTRITION

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

ANIMAL PARASITES

Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

Character of Interrelations Between Chironomidae and Their Parasites, Mermithidae, (In Russian),
W77-01596 1004 5C

Dynamics of the Parasite Fauna of Different Forms of Salvelinus Alpinus L. from the Basin of Lake Azabachje, (In Russian),
W77-01597 1004 2H

Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

Evaluation of the Effectiveness of Dehelmintization of Waste Water During Mechanical Treatment at Smolensk (Otsenka effektivnosti degel' mintizatskii stochnykh vod pri mekhanicheskoi ochistke v Smolenske),
W77-10636 1021 5D

Is There a Potential for Parasitic Disease Transmission from Land Application of Sewage Effluents and Sludges,
W77-11750 1023 5E

ANIMAL PATHOLOGY

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Pathology of Acute and Chronic Exposure of Salmonid Fishes to Supersaturated Water,
W77-04409 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Observations on the Effects of Gas Embolism in Captured Adult Menhaden,
W77-04425 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

ANIMAL PATHOLOGY

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Acute Toxicity of Water-Borne Dimethylnitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

ANIMAL PHYSIOLOGY

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Gas Bubble Disease, Proceedings of a Workshop Held at Richland, Washington, Oct. 8-9, 1974.
W77-04413 1009 5C

Effects of Long Term Exposure to Supersaturation of Dissolved Atmospheric Gases on Juvenile Chinook Salmon and Steelhead Trout in Deep and Shallow Test Tanks,
W77-04414 1009 5C

Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Observations on the Effects of Gas Embolism in Captured Adult Menhaden,
W77-04425 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Biological Studies: Laboratory Orientation,
W77-04432 1009 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Brain Growth of Young Herring and Trout,
W77-04546 1009 2I

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-06275 1013 5C

Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

Physiological Characteristics of Mercury Uptake by Two Estuarine Species,
W77-12007 1023 5B

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

ANIMAL POPULATIONS

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

ANIMALS

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

ANIMAS RIVER (NM)

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

ANIMAS RIVER WATERSHED (COLO)

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

ANION ADSORPTION

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

ANION EXCHANGE

The Removal of Salt and Organic Material from Sewage Effluent by Anion Exchange Resins,
W77-01364 1003 5D

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Determination of Uranium in Natural Water by Preconcentration on Anion-Exchange Resin and Delayed-Neutron Counting,
W77-05682 1012 5A

Purification of Waste Sulphuric Acid by Dialysis on Weakly-Basic Anion-Exchange Membranes (Dialityczne oczyszczanie odpawdow stezonego kwasu siarkowego przy pomocy slabozasadowych membran anionowymiennych),
W77-06186 1013 5D

The Removal of Organic Matter from Water Supplies by Ion Exchange,
W77-06760 1014 5F

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

ANION EXCLUSION

Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

ANIONIC DETERGENTS

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

ANIONIC EXCHANGE

Application of Ion Exchange Resins in the Purification of Plating Sewage. 3. Transformation of Ion Exchange Resins During their Exploitation (Primenenie ionoobmennykh smol dlya ochistki stochnykh vod gal' vanicheskikh tsekhov. 3. izmenenie svoistv ionitov v khode ekspluatatsii),
W77-05521 1011 5D

ANIONIC SURFACTANTS

Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

ANIONS

Sample Pretreatment for Determination of Some Anions in Highly Polluted Effluents (Uprava vzorku pred stanovenim nekterych aniontu v silne znecistenych odpadnich vodach),
W77-10692 1021 5A

ANISAKIDAE

Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

ANISOTROPIC AQUIFERS

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

ANISOTROPY

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01929 1004 4B

The Simulation of Whole Core Permeameter Flow Geometry,
W77-05933 1012 2F

ANKISTRODESMUS SP.
Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

ANNAPOLIS (MD)
Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

ANNELIDS
Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

ANNUAL
The Annual Volume of U.S. Precipitation and its Variations for the Period 1931-1971,
W77-02483 1005 2B

Annual Dynamics of Soluble Salts in the Soils of an Irrigated Field with Both Deep Closed and Open Drainage at the Bagaevsko-Sadkovskaya Irrigation System, (In Russian),
W77-02930 1006 3F

Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

United States Geological Survey Annual Report, Fiscal Year 1976.
W77-12369 1024 9D

ANNUAL ACTIVITIES
Activities of the Water Resources Division of the U.S. Geological Survey in the Caribbean Area in 1976,
W77-11380 1022 9D

ANNUAL FLOOD
Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

ANNUAL FLOWS
Streamflow Regionalization in British Columbia, No. 2, Regression of Mean Annual Flows on Physiographic Parameters,
W77-07434 1015 2E

ANNUAL MORTALITY
Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

ANNUAL OPERATION
Annual Operation of a Coastal Groundwater Basin at a Prescribed Reliability Level,
W77-01882 1004 4B

ANNUAL PEAK DISCHARGE
Annual Peak Discharges from Small Drainage Areas in Montana Through September 1976,
W77-08482 1017 2E

Return Periods of Hydrological Events,
W77-09958 1020 2B

ANNUAL PHYSIOLOGY
Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

ANNUAL TEMPERATURE CYCLE
Water Temperatures of Kentucky,
W77-05743 1012 7C

ANODIC STRIPPING VOLTAMMETRY
Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

ANODONTA
The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

ANOKA COUNTY (MINN)
Hydrogeology of a Drift Filled Bedrock Valley Near Lino Lakes, Anoka County, Minnesota,
W77-00860 1002 2F

ANOSTRACA
Ecological and Physiological Patterns of Polyartemia Forcipata (Anostraca) from Tundra Water Bodies of the East Murman, (In Russian),
W77-00525 1001 2I

ANOXIC BASINS
Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

ANOXIC CONDITIONS
Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

ANOXIC ENVIRONMENT
Gymnodinium Type-'65 Red Tide in Occurring Anoxic Environment of Omura Bay, (In Japanese),
W77-10706 1021 5C

ANOXIC SEDIMENT
A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

ANOXIC SEDIMENTS (MARINE)
Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

ANOXIC WATER
Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

ANOXIC WATERS
The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

ANTAGONISM
An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

ANTAGONISTIC EFFECTS
The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

ANTARCTIC
Snow-Road Construction--A Summary of Technology from Past to Present,
W77-01638 1004 4C

On the Development of a Seasonal Change Sea-Ice Model,
W77-01925 1004 2C

A Note on the Contribution of Rime and Surface Hoar to the Accumulation on the Ross Ice Shelf, Antarctica,
W77-02469 1005 2C

Radio-Echo Layers and the Recent Stability of the West Antarctic Ice Sheet,
W77-03100 1007 2C

Rheological Implications of the Internal Structure and Crystal Fabrics of the West Antarctic Ice Sheet as Revealed by Deep Core Drilling at Byrd Station,
W77-05798 1012 2C

On the Characteristics and Circulation of the Southwestern Atlantic Ocean,
W77-06524 1013 2L

The Lentic and Lotic Freshwater Types of Marion Island (Sub-Antarctic): A Limnological Study,
W77-07514 1015 5C

Electrical Resistivity Measurements on the Ross Ice Shelf,
W77-08051 1016 2C

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

A Snow-Bank Push Mechanism for the Formation of Some 'Annual' Moraine Ridges,
W77-08054 1016 2C

Resurvey of the 'Byrd' Station, Antarctica, Drill Hole,
W77-08227 1017 2C

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

Was There a Late-Wurm Arctic Ice Sheet,
W77-08839 1018 2C

Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

Heat Transfer Characteristics of Melting and Refreezing a Drill Hole Through an Ice Shelf in Antarctica,
W77-10655 1021 2C

A Comparison of Summer Current Measurements in the Drake Passage,
W77-12301 1024 2L

ANTARCTIC ICE SHEET
Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

ANTARCTIC OCEAN
Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

A Comparison of Summer Current Measurements in the Drake Passage,
W77-12301 1024 2L

ANTARCTICA
Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

ANTECEDENT MOISTURE CONTENT
Development of a Continuous Urban Rainfall-Runoff Model,
W77-00949 1002 2A

ANTECEDENT PRECIPITATION
Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

ANTECEDENT SOIL MOISTURE
Effects of Antecedent Soil Moisture on Storm Hydrographs,
W77-05603 1012 2A

ANTELOPE CREEK (CA)
Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

ANTELOPE CREEK (NB)
Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

ANTHOCIDARIS SP.
Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

ANTHRACITE MINING REFUSE
Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

ANTHROPOGENIC PROCESSES
Present-Day Slumping and Erosion Phenomena on Irrigated Lands (Exemplified by Southeastern Ciscaucasia), (In Russian),
W77-08885 1018 2J

ANTHROPOGENIC RELIEF
Anthropogenic Morphogenesis of the Relief of the Lower Don, (In Russian),
W77-01039 1002 2H

ANTI-BACTERIAL DRUGS
Studies on the Application of Ampicillin for Pseudotuberculosis of Cultured Yellowtails: I. In Vitro Studies on Sensitivity, Development of Drug-Resistance and Reversion of Acquired Drug-Resistance Characteristics, (In Japanese),
W77-10992 1022 5C

ANTIBIOTIC PROPERTIES (ALGAE)
The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

ANTIBIOTICS
Considerations on the Waste Water Quality and Treatment at the Antibiotics Plant from Jassy, (In Hungarian),
W77-01580 1004 5D

ANTIBIOTICS (PESTICIDES)
Treatment of Troublesome Odors from the Fermentation of Antibiotics (Abbattimento Di Odori Molesti Provenienti Dalla Fermentazione Di Antibiotici),
W77-03603 1008 5D

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

ANTIBODIES
The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

ANTIBODY PRODUCTION
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

ANTICOAGULANTS
Problems Encountered with EDTA as an Anticoagulant for Fish Blood,
W77-11564 1023 5A

ANTIFOULING MATERIALS
The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

ANTIGENS
The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

ANTIMONY
Electrode Kinetics of Antimony in Acidic Chloride Solutions,
W77-02533 1005 3A

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

ANTIMONY COMPOUNDS
Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

ANTIMORA ROSTRATA
The Effects of Temperature and Hydrostatic Pressure on Enzymes of an Abyssal Fish, Antimora Rostrata: Liver NADP-Linked Isocitrate Dehydrogenase,
W77-00875 1002 5C

ANTIMYCIN
Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

ANTIMYCIN A
Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

ANTISEPTICS
Evaluation of the Toxicity of Substances Being Released into Water Bodies for the Early Development of Fish, (In Russian),
W77-00189 1001 5C

ANTITRANSPIRANTS
Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Conserving Water by Antitranspirant Treatment of Phreatophytes,
W77-02863 1006 3B

Aerial Spraying of Phreatophytes with Antitranspirant,
W77-02867 1006 3B

The Regulation of Transpiration Expenditure of Moisture by Plants with the Aid of Antitranspirants, (In Russian),
W77-03475 1007 3B

APACHE AND NAVAJO COUNTIES (ARIZ)
Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

APALACHICOLA BAY (FLA)
Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

APALACHICOLA BAY (FLA)

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

APHANIZOMENON-FLOS-AQUAE

Composition of the Carbohydrate Complex of Aphanizomenon Flos-Aquae (L.) Ralfs, (In Russian),
W77-01209 1003 5C

Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

APPALACHIAN MOUNTAIN REGION

The Relationship Between Nitrate Concentrations in the Southern Appalachian Mountain Streams and Terrestrial Nitrifiers,
W77-01423 1003 5B

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

The Effect of Rainfall Intensity on Storm Flow and Peak Discharge from Forest Land,
W77-09125 1019 2B

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

APPALACHIAN PLATEAU

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

APPLICATION FACTOR

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

APPLICATION METHODS

Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Conserving Water by Antitranspirant Treatment of Phreatophytes,
W77-02863 1006 3B

Aerial Spraying of Phreatophytes with Antitranspirant,
W77-02867 1006 3B

Lubricating Wire Rope.
W77-04129 1009 8G

Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

APPLICATION PATTERNS

A Simulation of Smooth-Variable Intensity Rainfall Patterns,
W77-09337 1019 2B

APPLICATION RATES

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Economic Potential and Management Considerations in Land Application of Beef Feedlot Wastes,
W77-11977 1023 5G

APPRAISALS

Summary Appraisals of the Nation's Ground-Water Resources--Great Basin Region,
W77-11873 1023 4B

APPROACH RESPONSES

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

APPROPRIATION

Appropriation.
W77-01012 1002 6E

Water Rights Registration.
W77-01109 1003 6E

Suspension and Restoration of Right to Appropriate.
W77-03508 1007 6E

Cache La Poudre Water Users Association V Glacier View Meadows (Appropriation of Water in Plan of Augmentation).
W77-03520 1007 6E

Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

In-Stream Appropriation for Recreation and Scenic Beauty (Comment on Idaho Department of Parks V Idaho Department of Water Administration),
W77-05057 1010 6E

Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

Abandonment of Water Rights,
W77-06582 1013 6E

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Snake River Land Co V State Board of Control (Beneficial Use of Water Held Sufficient Proof of Appropriation).
W77-08135 1017 6E

Should Rivers Have Running. Toward Extension of the Reserved Rights Doctrine to Include Minimum Stream Flows,
W77-08372 1017 6E

Bank of America National Trust and Saving Association V State Water Resources Control Board (Condition Placed on Water Permit Defeated for Lack of Evidence of Necessity).
W77-08391 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Appropriation of Water for Power (Hydroelectric Power Projects).
W77-08395 1017 6E

Appropriation of Water.
W77-08405 1017 6E

Unlawful Use, Diversion or Waste of State Water.
W77-08995 1018 6E

Preservation of Certain Lakes as Health Resorts and Recreation Places.
W77-09576 1019 6E

An Optimal State Water Law: Fixed Water Rights and Flexible Market Prices,
W77-09587 1019 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

Rights in State Water (Appropriation Plan).
W77-11193 1022 6E

Procedure for Determining or Establishing Water Rights in State Streams.
W77-11197 1022 6E

Underground Waters.
W77-11203 1022 6E

APPROXIMATION METHOD

Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

Solutions to Green-Ampt Infiltration Equation,
W77-07553 1015 4A

AQUACULTURE

On the Oceanographic Conditions of Oyster Farming Area Near Chungmu, (In Korean),
W77-00498 1001 2L

The Economics of Waste Water-Aquaculture Systems,
W77-02069 1004 5G

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

The Production of Marine Organisms Under Natural Conditions and in Cultures (In German),
W77-06375 1013 5C

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

The MIT/Marine Industry Collegium Opportunity Brief No. 6. Electron Irradiation, Sewage Sludge and Aquaculture.
W77-12915 1024 5D

AQUARIA

Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimentai Aquaria,
W77-07841 1016 7B

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

AQUARIUM PUMPS

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

AQUATIC ALGAE

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

Effects of Kraft Pulping Effluents on the Benthic Algal Populations in Northwestern Spain. I. Distribution and Abundance of Characteristic Fucaceae (Incidencia de vertidos industriales en la estructura de poblaciones intermareales. I. Distribucion y abundancia de Fucaceas caracteristicas),
W77-05690 1012 5C

Algae in Copper Treated Fish Ponds,
W77-05860 1012 5C

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

Ecological Studies on Algal-Lysing Bacteria in Fresh Waters,
W77-09469 1019 5C

Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

Freshwater Algae of Southern Africa:3. Pleurotaenium Breve Raciborski Var. Engleri (Schmidle) Krieger and Penium Gonatozygiforme Claassen Sp. Nov. from Transvaal,
W77-11546 1023 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

Process for Promotion of Algae Growth in a Sewage Medium,
W77-12949 1024 5D

AQUATIC ANIMALS

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Hydrogen Ion Concentration in the Gastrointestinal Tract of Channel Catfish,
W77-01062 1002 5C

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

The Significance of Gravel Pits as a Biological Refuge, (In German),
W77-05205 1011 2H

Optic Device for Observations of Small Organisms Under Water, (In Russian),
W77-06926 1014 7B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

AQUATIC BACTERIA

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

AQUATIC BACTERIA

The Influence of Acrolein and Hydrocryle on the Development Dynamics of Aquatic Bacteria,
W77-06690 1014 5C

Bacteriological Studies in the Cienaga Grande (Great Marsh) of Santa Maria, Columbia, (In Spanish),
W77-07512 1015 5C

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

AQUATIC BEETLES

Effect of River Pollution on Aquatic Beetles, (In Russian),
W77-02261 1005 5A

AQUATIC BIOMASS

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

AQUATIC BUFFER ZONE

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

AQUATIC BUFFER ZONES

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

AQUATIC DRIFT

The Drift and its Ecological Significance: Experimental Investigation on Ecdyonurus Venosus (Fabr.) in a Stream Model, (In German),
W77-04865 1010 5B

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Ocean Surface Drift Velocities,
W77-11810 1023 2L

AQUATIC ECOLOGICAL SURVEY

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

AQUATIC ECOSYSTEMS

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

AQUATIC ENVIRONMENT

Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

The Behavior of Plutonium in Aquatic Ecosystems: A Summary of Studies on the Great Lakes,
W77-04519 1009 5C

Sampling Device for Monitoring Biodegradation of Oil and Other Pollutants in Aquatic Environments,
W77-04801 1010 5B

Interim Classification of Wetlands and Aquatic Habitats of the United States,
W77-05049 1010 4A

Ecological Data on Continental Aquatic Vegetation, (In Spanish),
W77-06784 1014 2I

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

FEDBAK03 - A Computer Program for the Modelling of First Order Consecutive Reactions with Feedback Under a Steady State Multidimensional Natural Aquatic System,
W77-09176 1019 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Impacts of Nuclear Releases into the Aquatic Environment.
W77-10384 1021 5C

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

Mosquito Control in the Aquatic Environment with Monomolecular Organic Surface Films,
W77-11888 1023 5G

AQUATIC ENVIRONMENTS

Environmental Behaviour of the Binuclear Oxygen-Bridged Nitratonitrosylruthenium Complex,
W77-10392 1021 5C

AQUATIC FUNGI

Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Studies on Fungal Propagules in the Weser Estuary (German Bight): I. Quantitative Data 1974, (In German),
W77-07583 1015 5C

Data 1973/1974 Regarding Hydrography and Water Quality in the Weser Estuary, Germany, (In German),
W77-07584 1015 5C

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

AQUATIC HABITATS

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Interim Classification of Wetlands and Aquatic Habitats of the United States,
W77-05049 1010 4A

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

Ecological Data on Continental Aquatic Vegetation, (In Spanish),
W77-06784 1014 2I

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

AQUATIC INSECTS

The Temperature of Two Welsh Lakes and Its Effect on the Distribution of Two Freshwater Insects,
W77-00878 1002 5C

Effect of River Pollution on Aquatic Beetles, (In Russian),
W77-02261 1005 5A

Method of Marking Aquatic Coleoptera, (In French),
W77-02920 1006 7B

The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

The Influence of Temperature on the Bioenergetics of the Carnivorous Stonefly Nymph, Acroneuria California Banks (Plecoptera: Perlidae),
W77-03641 1008 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

A Diurnally Fluctuating Thermal System for Studying the Effect of Temperature on Aquatic Organisms,
W77-06291 1013 5C

Effects of Sand Sedimentation on Colonization of Stream Insects,
W77-06407 1013 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

On the Aquatic Insect Communities in Shore Zones and Influents as Well as Effluents of Lakes in Shinshu, (In Japanese),
W77-10949 1022 2H

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

The Larval and Pupal Stages of Ugandatrichia Mosely (Trichoptera: Hydroptilidae) from Rhodesia, with the Description of a New Species,
W77-11557 1023 2I

Emergence of Chironomidae (Diptera) from Char Lake, Resolute, Northwest Territories,
W77-11652 1023 5C

Emergence of Trichoptera in 1972-74 from Two Streams Near Lunz (Austria), (In German),
W77-12609 1024 2I

AQUATIC LIFE

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Aqueous Leachate from Western Red Cedar: Effects on Some Aquatic Organisms,
W77-03799 1008 5C

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

The Responses of Some Estuarine Organisms to Suspended Solids,
W77-07353 1015 8D

Systematic Analysis of Midwater Fishes Obtained at Deepwater Dumpsite 106 May 1974,
W77-09255 1019 5C

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Forecasting: The Challenge to the Aquatic Sciences,
W77-10190 1021 6B

Field Studies on Marine Life Inhabiting Areas of Chronic Low Level Exposure to Petroleum,
W77-11033 1022 5C

Cold Shock to Aquatic Organisms: Guidance for Power-Plant Siting, Design, and Operation,
W77-11502 1023 5C

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

AQUATIC MACROPHYTES

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic

Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

AQUATIC MICROBIOLOGY
Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

AQUATIC MICROORGANISMS
Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

Pathogenic Amoebas from Brackish and Ocean Sediments, with a Description of Acanthamoeba Hatchetti, N. Sp.,
W77-10639 1021 5C

Conversion of 1,1,1-Trichloro-2,2-Bis(P-chlorophenyl)Ethane (DDT) to Water-Soluble Products by Microorganisms,
W77-10742 1021 5C

AQUATIC NATURAL AREAS
Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

AQUATIC NITROGEN
Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

AQUATIC ORGANISMS
The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

AQUATIC PLANTS
A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Water Hyacinths and Alligator Weeds for Removal of Silver, Cobalt, and Strontium from Polluted Waters,
W77-02037 1004 5G

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

Aquatic Plants: A Guide for Their Identification and Control in Pennsylvania,
W77-04570 1009 5G

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Algological Observations in the Iddefjord and the Adjacent Fjord Areas, S.E. Norway, (In Norwegian),
W77-05196 1011 5C

The Significance of Gravel Pits as a Biological Refuge, (In German),
W77-05205 1011 2H

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

The Mining Fauna in Four Macrophyte Species in Mikolajskie Lake,
W77-06688 1014 5C

Ecological Data on Continental Aquatic Vegetation, (In Spanish),
W77-06784 1014 2I

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Mineralogical Composition of Submerged Aquatic Macrophytes from Connecticut,
W77-09477 1019 5A

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

Utilization of Sedimentary Ammonia by Potamogeton Nodosus and Scirpus,
W77-11479 1022 5C

The Potential of Submersed Vascular Plants for Reclamation of Wastewater in Temperate Zone Ponds,
W77-11693 1023 5G

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

AQUATIC POPULATION
Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

AQUATIC POPULATIONS
Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Effects of Radiation on Aquatic Populations,
W77-04509 1009 5C

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

The Potential of Submersed Vascular Plants for Reclamation of Wastewater in Temperate Zone Ponds,
W77-11693 1023 5G

AQUATIC PRODUCTIVITY
Methods of Dissoled Oxygen Budget Analysis for Assessing Effects of Dredged Material Disposal on Biological Community Metabolism,
W77-03393 1007 5C

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

AQUATIC SOILS
The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

AQUATIC WEED CONTROL
The Biological Control of Alligatorweed,
W77-00714 1002 5G

Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Parrot's-Feather (Myriophyllum Aquaticum (Vell.) Verdc.), an Aggressive Water Weed in Portugal, (In Portuguese),
W77-02247 1005 5G

Use of Plant Pathogens for Bioregulation of Aquatic Macrophytes,
W77-02514 1005 5G

Pressing Characteristics of Waterhyacinth,
W77-02527 1005 2I

Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

Weed Control and the Environment, (In French),
W77-04041 1008 5B

Aquatic Plants: A Guide for Their Identification and Control in Pennsylvania,
W77-04570 1009 5G

Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

Making Aquatic Weeds Useful: Some Perspectives for Developing Countries.
W77-07964 1016 4A

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Destruction of Vegetation on Dams of the Gorky Hydroelectric Power Plant with Herbicides,
W77-10059 1020 4A

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

Biological Aquatic Weed Control by Fish in the Lower Sonoran Desert of California,
W77-11423 1022 4A

AQUATIC WEEDS
Certain Characteristic Features of Flowering and Pollination in Duckweeds (Lemnaceae S. Gray),
W77-01778 1004 4A

Parrot's-Feather (Myriophyllum Aquaticum (Vell.) Verdc.), an Aggressive Water Weed in Portugal, (In Portuguese),
W77-02247 1005 5G

Effects of Waterhyacinth Cover on Water Chemistry, Phytoplankton, and Fish in Ponds,
W77-02291 1005 5G

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes,
W77-10139 1021 2H

A Production Model for Myriophyllum Spicatum L.,
W77-10731 1021 5C

Absorption and Accumulation of 32P by Oedogonium and Some Aquatic Macrophytes,
W77-11569 1023 5A

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

AQUEDUCT
Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

AQUEDUCTS
The California State Water Project in 1975.
W77-03551 1007 6B

The California State Water Project Summary: 1974.
W77-06362 1013 8A

Conjunctive Use of the Tajo-Segura Aqueduct Surface System and the Aquifers of the La Mancha Area,
W77-06728 1014 4B

AQUEOUS-PHASE OXIDATION
Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

AQUEOUS SOLUTIONS
Bicarbonate Content of Groundwater in Carbonate Rock in Eastern North America,
W77-02020 1004 2K

AQUEOUS SOLUTIONS

Calcium Equilibrium in Mixed Ion Aqueous Systems Open to the Atmosphere,
W77-02538 1005 2K

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

High Yield Stripping Column for Alcoholic Solutions--With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

Predicting Specific Conductance and Salt Concentration in Dilute Aqueous Solutions,
W77-04765 1010 2G

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

Effect of Cryogenic Processes on the Formation of Sodium Bicarbonate Waters,
W77-06507 1013 2K

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

Electrolytic Treatment of Chromate and Cyanide Wastes with Packed Bipolar Cell, (In Japanese),
W77-07211 1015 5D

Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

Reactions of Metal Ions at Surfaces of Hydrous Iron Oxide,
W77-10566 1021 2K

Oxygenation of Aqueous Wastes: The PROST System,
W77-10608 1021 5D

A Comparison of In Situ Extractors for Sampling Soil Water,
W77-11235 1022 2G

AQUICULTURE

Blue Gold: Mariculture of the Edible Blue Mussel (Mytilus Edulis),
W77-00386 1001 6C

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Harvesting the Ocean--On Land,
W77-00718 1002 5G

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

Beneficial Use of Thermal Effluent in Lobster Culture,
W77-01707 1004 5C

The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

Marine Polyculture Based on Natural Food Chains and Recycled Wastes,
W77-02662 1006 5C

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Northwest Mariculture Laws,
W77-03598 1007 6E

Criteria for Candidate Species for Aquaculture,
W77-04171 1009 6C

The Feasibility of Oyster Raft Culture in East Coast Estuaries,
W77-04559 1009 2L

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Gas Bubble Disease,
W77-06018 1012 5C

Closed-Cycle Mariculture in Maryland, Virginia, and Delaware: An Examination of the Adaptability of Existing Fishery Laws to New Technology,
W77-06052 1012 6E

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Aquaculture Projects.
W77-11460 1022 5G

Aquaculture,
W77-11665 1023 5G

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

AQUIERS

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

AQUIFER CHARACTERISTICS

Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

Iterative Method of Determining Aquifer Constants,
W77-00555 1002 2B

Parameter Identification in an Inhomogeneous Medium with the Finite-Element Method,
W77-00638 1002 2F

Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

A Simple Computer Program for the Determination of Aquifer Characteristics from Pump Test Data,
W77-01337 1003 7C

Artesian Aquifers,
W77-01761 1004 4B

A Model for Calculating Effects of Liquid Waste Disposal in Deep Saline Aquifers, Part I--Development.
W77-02010 1004 5B

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Digital-Simulation Model of the Wenonah-Mount Laurel Aquifer in the Coastal Plain of New Jersey,
W77-02975 1006 2F

An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Hydraulic Characteristics of the Piney Point Aquifer and Overlying Confining Bed Near Dover, Delaware,
W77-03331 1007 2F

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Preliminary Digital Model of Ground-Water Flow in the Madison Group, Poweder River Basin and Adjacent areas, Wyoming, Montana, South Dakota, North Dakota, and Nebraska,
W77-03882 1008 2F

The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

Ground-Water Resources of the White River Junction Area, Vermont,
W77-04221 1009 4B

Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

Water Resources of the North Coast Limestone Area, Puerto Rico,
W77-06335 1013 4B

Brief Summary of the Hydrogeology of Bangladesh,
W77-06342 1013 4B

Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

Chemical Dynamics of a Confined Limestone Aquifer,
W77-06399 1013 2F

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York,
W77-07479 1015 2F

Major Aquifers in Deuel and Hamlin Counties, South Dakota,
W77-07483 1015 4B

Ground-Water Resources of Vanderburgh County, Indiana,
W77-08170 1017 4B

AQUIFER CHARACTERISTICS

Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

Pumping Tests Provide Useful Data,
W77-08658 1018 8G

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

Characteristics of Aquifers in the Northern Uinta Basin Area, Utah and Colorado,
W77-10559 1021 2F

Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

AQUIFER MANAGEMENT

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

Ground Water Basin Protection Projects: Fremont Salinity Barrier.
W77-03555 1007 4B

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Allocating Buried Treasure: Federal Litigation Involving Interstate Ground Water,
W77-08491 1017 6E

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Ground Water System Evaluation for Wadi Nisah-Saudi Arabia,
W77-11426 1022 4B

AQUIFER MODELS

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

AQUIFER PERMEABILITY

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

AQUIFER SKELETON

Fluctuations in the Waterlevel in Wells Due to Variations in Atmospheric Pressure,
W77-11606 1023 4B

AQUIFER SYSTEMS

Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

One-Dimensional Simulation of Aquifer System Compaction near Pixley, California: 2. Stress-Dependent Parameters,
W77-00490 1001 2F

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

Utilizing a Digital Model to Determine the Hydraulic Properties of a Layered Aquifer,
W77-06333 1013 2F

Finite-Element Analysis of Groundwater Flow in Multi-Aquifer Systems, II. A Quasi Three-Dimensional Flow Model,
W77-09362 1019 2F

Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

AQUIFER TESTING

Iterative Method of Determining Aquifer Constants,
W77-00555 1002 2B

Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

Numerical Pumping Test Analysis in Unconfined Aquifers,
W77-05805 1012 2F

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

Characteristics of Aquifers in the Northern Uinta Basin Area, Utah and Colorado,
W77-10559 1021 2F

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

AQUIFERS

Effects of Near-Well Permeability Variation on Well Performance,
W77-00437 1001 4B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Iterative Method of Determining Aquifer Constants,
W77-00555 1002 2B

Computer Simulation Model of the Pleistocene Valleyfill Aquifer in Southwestern Essex and Southeastern Morris Counties, New Jersey,
W77-00865 1002 2F

Hydrogeology of the Quaternary and Tertiary Formations Along the South Coast of the Algarve Portugal,
W77-01136 1003 2F

Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Artesian Aquifers,
W77-01761 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

Investigation of Two-Regime Well Flow,
W77-02142 1005 4B

Numerical Solution of Boussinesq Equation,
W77-02143 1005 2F

Water Under the Sand,
W77-02852 1006 4B

A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

Permeability and Ground Water Circulation in the Madison Aquifer Along the Eastern Flank of the Bighorn Mountains of Wyoming,
W77-03122 1007 2F

Ground-Water Quality Data for Georgia,
W77-03333 1007 7C

High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

Ground-Water Pollution Near a Landfill,
W77-03991 1008 5B

Unsaturated Zone and Vertical-Flow Components in Draining Unconfined Formations,
W77-04000 1008 2F

An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

Ground Water Resources of the Bedrock Aquifers of the Denver Basin Colorado,
W77-04126 1009 2F

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

A Single-Potential Solution for Regional Interface Problems in Coastal Aquifers,
W77-04881 1010 2F

A Numerical Study of Confined-Unconfined Aquifers Including Effects of Delayed Yield and Leakage,
W77-04882 1010 2F

Water Levels in Artesian and Nonartesian Aquifers of Florida, 1973-74,
W77-04985 1010 4B

Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

Ground-Water Data for Leflore County, Mississippi,
W77-05265 1011 7C

Ground-Water Data for Humphreys County, Mississippi,
W77-05266 1011 7C

Ground-Water Data for Issaquena County, Mississippi,
W77-05267 1011 7C

Ground-Water Data for Quitman County, Mississippi,
W77-05268 1011 7C

Ground-Water Data for Coahoma County, Mississippi,
W77-05269 1011 7C

Ground-Water Data for Tate County, Mississippi,
W77-05270 1011 7C

Ground-Water Data for Tunica County, Mississippi,
W77-05271 1011 7C

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Permeation Properties of the Bunter Sandstone of Northwest Lancashire, England,
W77-05793 1012 2F

Numerical Pumping Test Analysis in Unconfined Aquifers,
W77-05805 1012 2F

Thermal Convection in a Cavernous Aquifer,
W77-05951 1012 2F

Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

Hydrologic Relations Between Lakes and Aquifers in a Recharge Area Near Orlando, Florida,
W77-06348 1013 4B

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

On Large-Scale Simulation of Groundwater Flow Systems,
W77-06713 1014 4B

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

Integration of Aquifers in Flood Control Projects,
W77-06723 1014 4A

Conjunctive Use of the Tajo-Segura Aqueduct Surface System and the Aquifers of the La Mancha Area,
W77-06728 1014 4B

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Interconnection of Surface and Underground Water Resources in Southeast Durham,
W77-07149 1015 4B

Specific Yield Determinations from a Consolidated Sandstone Aquifer,
W77-07153 1015 2F

Calculation of the Leaky Aquifer Function,
W77-07156 1015 2F

Management Model for Ground Water Development,
W77-07529 1015 4B

Use of Cross-Correlation Techniques for Determining the Relationship Between Groundwater Levels and Sources in the Nile Delta Area,
W77-07679 1016 2F

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

Sanitary and Hygienic Characteristics of Subsurface Waters of the Tselinograd and Turgai Oblasts, (In Russian),
W77-08253 1017 5B

Aquifer Modeling Helps Farmers.
W77-08317 1017 2F

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

A 'Rough Cut' Model of a South Florida Water Supply Plan,
W77-08980 1018 4B

Transient Analysis of Phreatic Aquifers Lying Between Two Open Channels,
W77-09026 1018 2F

Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

Validation of an Axisymmetric Pseudo-Unconfined Time-Variant Digital Model,
W77-09112 1019 2F

An Electric Analog and Digital Computer Model of the Chipuxet Ground Water Aquifer, Kingston, Rhode Island,
W77-09637 1020 2F

Tritium in the Monitoring of Water Supply.
W77-10196 1021 2F

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-10264 1021 4B

Problems of Heat Storage in Aquifers,
W77-10332 1021 5B

Pump Testing in Heterogeneous Aquifers,
W77-10764 1021 2F

Permissible Mesh Spacing in Aquifer Problems Solved by Finite Differences,
W77-10765 1021 2F

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Brackish Groundwater Bodies as a Result of Geological History and Hydrological Conditions,
W77-11057 1022 2F

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Flowing Wells in Michigan 1974,
W77-11375 1022 4B

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

Shallow Aquifers Relative to Surface Water, Lower North Platte River Valley, Wyoming,
W77-11402 1022 4B

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

Two New Methods for Obtaining Water Samples from Shallow Aquifers and Littoral Sediments,
W77-12310 1024 7B

The Groundwater Resources of Uruguay,
W77-12312 1024 4B

Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

Energy (Hot Water) Storage in Groundwater Aquifers,
W77-12625 1024 4B

Head Gradient Control in Aquifers Used for Fluid Storage,
W77-12800 1024 4B

Land Subsidence and Cracking Due to Ground-Water Depletion,
W77-12803 1024 2F

AQUITARDS

Finite-Element Analysis of Groundwater Flow in Multiaquifer Systems, I. The Behavior of Hydrological Properties in an Aquitard While Being Pumped,
W77-07148 1015 2F

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

ARABIAN SEA

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

ARABLE LAND

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

ARAL SEA

Precipitation on the Aral Sea Surface, (In Russian),
W77-03592 1007 2B

ARBACIA LIXULA

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

ARBOVIRUSES

Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

ARCADIA LAKE (OKLA)

A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

ARCH DAMS

Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

ARCHAEOLOGY

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

ARCTIC

Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

Anomalous Local Glacier Activity, Baffin Island, Canada: Paleoclimatic Implications,
W77-01333 1003 2C

Potential Use of Satellite IR Data for Ice Thickness Mapping,
W77-01913 1004 2C

A Preliminary Tidal Exchange Experiment in Masset Inlet,
W77-01916 1004 2L

On the Development of a Seasonal Change Sea-Ice Model,
W77-01925 1004 2C

Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus)

Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

A Canadian Arctic Fjord with Some Comparisons to Fjords of the Western Americas,
W77-03977 1008 2L

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Recent Measurements of Wind Stress on Arctic Sea Ice,
W77-03980 1008 2C

Storm Surges in the Southern Beaufort Sea,
W77-03986 1008 2L

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

Water Drag on Arctic Sea Ice,
W77-04901 1010 2C

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

Volumetric Change of the Athabasca Glacier over the Last 100 Years,
W77-05792 1012 2C

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Life History Notes for a Population of Slimy Sculpin (Cottus Cognatus) in an Alaskan Arctic Stream,
W77-07393 1015 5C

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

Was There a Late-Wurm Arctic Ice Sheet,
W77-08839 1018 2C

On the Use of Tensiometers in Snow Hydrology,
W77-09123 1019 2C

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

Arctic Continental Shelf Processes and Morphology Related to Sea Ice Zonation, Beaufort Sea, Alaska,
W77-11383 1022 2C

ARCTIC COASTAL PLAINS (ALASKA)

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

ARCTIC COD

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

ARCTIC HYDROLOGY

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

ARCTIC MARINE SEDIMENTS

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

ARCTIC OCEAN

Numerical Simulation of the Arctic Ocean Circulation,
W77-00129 1001 2L

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Wind and Current Patterns in an Arctic Coast Lagoon,
W77-07323 1015 2L

Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

ARCTIC TERRAINS

Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

ARCTIC TUNDRA

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

AREA-WIDE WATER QUALITY PLANNING

A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

AREAL

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

AREAL AVERAGE PRECIPITATION

Estimation of Areal Average Precipitation Using Different Network Densities and Averaging Techniques,
W77-05109 1011 2B

AREAL DISTRIBUTION

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

AREAL HYDROGEOLOGY

Hydrogeology of the Quaternary and Tertiary Formations Along the South Coast of the Algarve Portugal,
W77-01136 1003 2F

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

AREAL PRECIPITATION
Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

AREIAL PHOTOGRAPHY
Test of Landsat-Based Urban Hydrologic Modeling,
W77-07528 1015 6A

ARENICOLA
The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

ARGENTINA
Hydrochemistry of the Parana River,
W77-00644 1002 2K

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

ARGENTINA (PAMPA)
Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

ARGENTINIAN PAMPA
Hydrogeological Investigations in the Pampa of Argentina,
W77-08064 1016 7B

ARGILLOTROPHIC LAKES
The Argillotrophic Lake System,
W77-11416 1022 5C

ARGO MERCHANT OIL SPILL
The ARGO MERCHANT Oil Spill. A Preliminary Scientific Report,
W77-07807 1016 5C

ARGON
The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

ARGON SOLUBILITIES
The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

ARGOPECTEN IRRADIANS
Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

ARGULUS FOLIACEUS
Argulus in the Lake of Geneva, (In French),
W77-04655 1010 2H

ARID CLIMATES
Boundaries of Arid Regions, (In Russian),
W77-01032 1002 7C

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

Connections Between Climate and Desertification,
W77-11629 1023 2B

ARID CLMATES
The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

ARID LAND
Determination of Dug Well Debit Under Conditions of Desert Pasture Lands, (In Russian),
W77-09310 1019 4B

ARID LANDS
Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

Boundaries of Arid Regions, (In Russian),
W77-01032 1002 7C

Root System of the Pear in Arid Zones, (In Russian),
W77-01595 1004 2I

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Providing for Provident Dogons,
W77-01896 1004 3B

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Water Supply and Sewage Treatment in Arid Areas.
W77-02173 1005 5D

Crop Production in the Arid Zone with Special Reference to Western Rajasthan,
W77-02869 1006 3F

Microclimatic Patterns on the Arid Lands Ecology Reserve,
W77-02870 1006 2B

Desertification: Symptom of a Crisis,
W77-03737 1008 4C

The Consequences of Fooling Mother Nature,
W77-03738 1008 2B

Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

Desert Repaired in Southeastern Oregon: A Case Study in Range Management,
W77-03742 1008 4D

Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

Wastewaters in the Vadose Zone of Arid Regions: Geochemical Interactions,
W77-04755 1010 2K

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

The American Experience,
W77-05941 1012 6G

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Harvesting Surface Runoff and Ephemeral Streamflow in Arid Zones,
W77-05946 1012 3B

Modest Techniques.
W77-06237 1013 6G

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Determination of Water-Resources Policies in Arid Lands,
W77-08453 1017 6B

Life At The Desert's Edge.
W77-09305 1019 4C

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

Arid Lands of Sub-Saharan Africa: Appendices to the Staff Final Report.
W77-11122 1022 4C

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

Observations on Algae of Some Arid and Semi-Arid Soils of Rajasthan,
W77-11869 1023 2G

U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

Water in Kuwait,
W77-12837 1024 3A

ARID WEST
Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

ARIZONA

Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

Sediment Control at Imperial Dam,
W77-00802 1002 4D

Accuracy of Evapotranspiration Rates Determined by the Water-Budget Method, Gila River Flood Plain, Southeastern Arizona,
W77-00868 1002 2D

Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Water Rights Registration.
W77-01109 1003 6E

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

Potential for Water Yield Improvement in Arizona Through Riparian Vegetation Management,
W77-01282 1003 3B

Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

Water Yields Resulting from Treatments on the Workman Creek Experimental Watersheds in Central Arizona,
W77-01660 1004 4C

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

Soil Moisture Survey Experiment at Phoenix, Arizona,
W77-01914 1004 2G

Hydraulic Performance of Flumes for Measurement of Sediment-Laden Flash Floods,
W77-01935 1004 2E

Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

Watershed Management's Effects on many Resources,
W77-02109 1005 3B

Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Pricing Urban Water,
W77-02171 1005 6D

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

Rights to Water.
W77-03494 1007 6E

Water Pollution.
W77-03495 1007 6E

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

Arizona Land Use Experiment,
W77-04245 1009 7B

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Summary, Phase I - Arizona State Water Plan: Inventory of Resource and Uses.
W77-04782 1010 6B

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Soil Water Availability in an Arizona Mixed Conifer Clearcutting,
W77-05121 1011 4D

Flood Plain Information: Agua Fria River, Maricopa County, Arizona,
W77-05303 1011 4A

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

Computer Simulation of Snowmelt,
W77-05735 1012 2C

Getting Water from the Sun,
W77-05937 1012 3F

Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

Gibbons V Globe Development, Nevada, Inc. (Adverse Use And Additional Supply Present Factual Questions Sufficient to Avoid Summary Judgement).
W77-06062 1012 6E

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

ARIZONA

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

Farmers Investment Company V Bettwy (Doctrine of Reasonable Use as Applied to Groundwaters).
W77-08137 1017 6E

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

A Computerized Information System Relating to Arizona's Water Resources,
W77-08307 1017 7C

Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W77-08351 1017 4B

Practical Application of Remote Sensing in Agriculture,
W77-08425 1017 3F

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Annual Summary of Ground-Water Conditions in Arizona, Spring 1975 to Spring 1976,
W77-08732 1018 7C

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

WAMIS Abstracts, No 2,
W77-09256 1019 10C

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Colorado River Basin Salinity Control Project--Title I,
W77-09931 1020 5D

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

Here Comes the Sun.
W77-10518 1021 8C

The Application of Hydrometeorological Data Obtained by Remote Sensing Techniques for Multipurpose Reservoir Operations,
W77-10664 1021 4A

Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

Determination of Sediment Yield by Transferring Rainfall Data,
W77-10804 1022 2J

Effects of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona, With a Section Statistical Analysis,
W77-10868 1022 5A

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

The Arizona Groundwater Controversy at Mid-Century,
W77-11102 1022 6E

An Assessment of the Impact of Water Impoundment and Diversion Structures on Vegetation in Southern Arizona,
W77-11429 1022 4A

Arizona Pump Water Budgets, 1977. (Maricopa, Pima, Pinal, Cochise and Greenlee Counties),
W77-11431 1022 8C

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Ion Activity Products of Calcium Carbonate In Waters Below the Root Zone,
W77-11438 1022 2K

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

Rain Resulting from Melting Ice Particles,
W77-11597 1023 2B

Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

ARIZONA TROUT

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

ARIZONA WATER USERS

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

ARKANSAS

Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

Artificial Recharge in the Grand Prairie, Arkansas,
W77-00734 1002 4B

A Record Arkansas Rainfall - The El Dorado Deluge,
W77-00897 1002 2B

County and Municipal Pollution Control Facilities.
W77-01108 1003 6E

Bibliography and Selected Abstracts of Reports on Water Resources and Related Subjects for Arkansas Through 1975,
W77-02014 1004 10C

Arkansas River Water Quality Related to the Irrigation Potential of Associated Soils,
W77-02065 1004 5B

Soil Water Deficits Under Forested and Clear-cut Areas in Northern Arkansas,
W77-04254 1009 2G

Handling Dairy Wastes,
W77-04610 1010 5B

Use of Water in Arkansas, 1975,
W77-05761 1012 6D

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Population Dynamics and Species Diversity of Ichthyo-Parasitofauna of the Buffalo National River,
W77-08446 1017 5C

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Discharge Data at Water-Quality Monitoring Stations in Arkansas, 1976 Water Year,
W77-09997 1020 7C

Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Hydrologic Unit Map--1974, State of Arkansas.
W77-11881 1023 7C

ARKANSAS RIVER

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

ARKANSAS RIVER (AR-OK)

An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

ARKANSAS RIVER BASIN (KAN)

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

ARKANSAS RIVER (KS)

Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

ARKANSAS-WHITE-RED REGION

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

ARM RIVER (CANADA)

A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

ARMORING (CHANNELS)

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

ARMY AMMUNITION PLANT (IOWA)

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

ARMY CORPS OF ENGINEERS

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

ARNO BASIN

A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

ARNO RIVER (ITALY)

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

AROCHLOR

PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

AROCHLORS

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

AROCLOR

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Review of PCB Levels in the Environment,
W77-10935 1022 5B

Depression of Primary Productivity by Aroclor 1232 in an Interspecific Lentic Algal Assembledge,
W77-11304 1022 5C

AROCLOR 1242

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

AROCLOR 1254

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

AROCLORS

The View of the Paper Industry on the Occurrence of PCB's in the Environment and the Need for Regulation,
W77-00461 1001 5B

Statement Relating to Polychlorinated Biphenyls on Behalf of the Wisconsin Paper Council,
W77-00462 1001 5B

Of PCB PPMS from GE and A Snafu from EPA and DEC,
W77-00978 1002 5A

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-10729 1021 5C

AROCLORS

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

AROMATIC COMPOUNDS

Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Operating Experiences on Petrochemicals Waste Water Treatment Plant of Gujarat Aromatics Project at Jawaharnagar,
W77-10351 1021 5D

Partitioning of Polycyclic Aromatic Hydrocarbons Between Dissolved and Particulate Phases in Natural Waters,
W77-11504 1023 5B

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

AROMATIC CONTENT

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

AROMATIC HYDROCARBONS

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

AROSA ESTUARY

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

ARRERO AREA (ETHIOPIA)

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

ARROYOS

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

ARSENIC

Retention of Arsenic by Hydroxy-Aluminum on Surfaces of Micaceous Mineral Colloids,
W77-00283 1001 5B

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

Determination of Arsenic in Drinking Water by Means of Silver Diethyldithiocarbamate, (In Russian),
W77-03113 1007 5A

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

Arsenic in Water and Fish from Lakes Hartwell, Keowee, and Jocassee, South Carolina,
W77-08191 1017 5A

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

ARSENIC COMPOUNDS

Retention of Arsenic by Hydroxy-Aluminum on Surfaces of Micaceous Mineral Colloids,
W77-00283 1001 5B

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Molecular Forms of Arsenic in the Environment,
W77-01302 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

Determination of Arsenic in Drinking Water by Means of Silver Diethyldithiocarbamate, (In Russian),
W77-03113 1007 5A

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

Evaluation of Arsenic Concentrations in the Tulpehocken Creek Basin,
W77-06330 1013 5B

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Technical and Microeconomic Analysis: Arsenic and Its Compounds,
W77-09465 1019 5B

Chemical Distribution and Gaseous Evolution of Arsenic-74 Added to Soils as DSMA-(74)AS,
W77-09659 1020 5B

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

ARSENIC (III)
Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

ARSENIC RESIDUES (SOILS)
Chemical Distribution and Gaseous Evolution of Arsenic-74 Added to Soils as DSMA-(74)AS,
W77-09659 1020 5B

ARSENICALS (PESTICIDES)
Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

ARTESIAN AQUIFERS
Analytic Solutions for Drawdowns in Rectangular Artesian Aquifers,
W77-03854 1008 4B

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Digital-Computer Model of the Sandstone Aquifer in Southeastern Wisconsin,
W77-08478 1017 2F

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

ARTESIAN WELLS
Sanitary and Hygienic Evaluation of the Quality of Underground Drinking Water, (In Russian),
W77-01023 1002 5B

Artesian Aquifers,
W77-01761 1004 4B

State Administration Generally (Powers and Duties of the Department of Water Resources).
W77-03704 1008 6E

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

Artesian Wells and Storage Reservoirs, and Works Connected Therewith.
W77-07263 1015 6E

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Artesian Wells.
W77-08397 1017 6E

Molybdenum Content in the Subsurface Waters of the Vinnitsa Oblast, (In Russian),
W77-08882 1018 2K

Artesian Wells.
W77-10500 1021 6E

Artesian Wells.
W77-11191 1022 6E

Flowing Wells in Michigan 1974,
W77-11375 1022 4B

ARTHROBACTER-SP
Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

ARTIFICAL DESTRATIFICATION
Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

ARTIFICAL MARSH WASTEWATER TREATMENT SYSTEM
Potential Replacement of Septic Tank Drain Field by Artificial Marsh Waste Water Treatment Systems,
W77-04117 1009 5D

ARTIFICIAL AERATION
Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

A Study on the Intensive Carp Culture in the Artificially Aerated Pond, (In Japanese),
W77-06431 1013 8I

The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

ARTIFICIAL BEACH NOURISHMENT
Beach Fill Stability and Borrow Material Texture,
W77-12566 1024 2J

ARTIFICIAL ESTUARIES
The Density of Artificial River and Estuarine Waters,
W77-01612 1004 2L

ARTIFICIAL GRASSES
Manning's Roughness for Artificial Grasses,
W77-04255 1009 4A

ARTIFICIAL INSEMINATION
Artificial Insemination in Trout Using A Sperm Diluant,
W77-04529 1009 2I

ARTIFICIAL ISLANDS
Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Process Description and Adaptation Study,
W77-05379 1011 5G

Civil Engineering Considerations,
W77-05380 1011 8A

Environmental Assessment,
W77-05381 1011 6G

Legal/Political Aspects,
W77-05382 1011 6E

ARTIFICIAL ISLANDS (PORTS)
Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

ARTIFICIAL LAKES
Louisiana Environmental Society V Brinegar (Environmental Impact Statement as to Artificial Lake to be Bridged by Highway Construction).
W77-01045 1002 6E

Public Rights to Artificial Waterbodies in Florida,
W77-01088 1003 6E

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

Artificial and Natural Lakes,
W77-03694 1008 6E

The Effect of Salt on Small, Artificial Lakes,
W77-04896 1010 5A

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Colonization of Imperiled Plants in Dredged Lakes of the Upper Rhine Plain, (In German),
W77-10730 1021 2H

ARTIFICIAL PORTS
Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Process Description and Adaptation Study,
W77-05379 1011 5G

Civil Engineering Considerations,
W77-05380 1011 8A

Legal/Political Aspects,
W77-05382 1011 6E

ARTIFICIAL PRECIPITATION
Result of Operational Cloud Seeding Experiment Over Rihand Catchment in Northeast India,
W77-01129 1003 3B

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

A Simulation of Smooth-Variable Intensity Rainfall Patterns,
W77-09337 1019 2B

United States and Mexico: Weather Technology Water Resources and International Law,
W77-11173 1022 6E

ARTIFICIAL PROPAGATION
Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

ARTIFICIAL RECHARGE
Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

Hygienic Problems of the Formation and Prediction of Changes of Groundwater Quality in the Case of Recharging from Surface Water Sources, (In Russian),
W77-00528 1002 5B

Artificial Recharge in the Grand Prairie, Arkansas,
W77-00734 1002 4B

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Hydrodynamics of Perched Mounds,
W77-01141 1003 4B

A Model Study of the Effects of Artificial Recharge,
W77-01883 1004 4B

Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

Making Water Available for Irrigation,
W77-04293 1009 4B

Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

Consumptive Use of Ground Water,
W77-07257 1015 6E

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

Profile Desaturation During Sediment Deposition in a Groundwater Recharge Trench,
W77-09115 1019 4B

Effects of Siltation on Rates of Recharge,
W77-10378 1021 4B

Analysis of the Movement of Water from Recharge Channels and Pits,
W77-10379 1021 4B

Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

Water Projects Go Underground,
W77-12886 1024 4B

ARTIFICIAL REDDS
Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

ARTIFICIAL RIVERS
The Density of Artificial River and Estuarine Waters,
W77-01612 1004 2L

ARTIFICIAL SEA-ISLANDS
Offshore Industrial-Port Islands,
W77-00176 1001 5G

ARTIFICIAL STREAMS
Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

ARTIFICIAL SUBSTRATES
Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

ARTIFICIAL USE
Riparian Owner's Right to New Land Created by Reliction or by Accretion Influenced by Artificial Condition Not Produced by Such Owner.
W77-08398 1017 6E

ARTIFICIAL WATER COURSES
Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

ARTIFICIAL WATER REGULATION
Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

ARTIFICIAL WATERCOURSES
Public Rights to Artificial Waterbodies in Florida,
W77-01088 1003 6E

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Blumenfeld v San Francisco Bay Conservation and Development Commission (California Statutes Granting Jurisdiction to Conservation Commission Should be Construed so as not to Defeat the Intent of the Legislature).
W77-11180 1022 6E

ARYL HYDROCARBON HYDROXYLASE
Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

ASBESTIFORM FIBRES (MINERAL)
Asbestiform Fibre Levels in Lakes Superior and Huron,
W77-02753 1006 5B

ASBESTOS
Asbestos in the Great Lakes Basin with Emphasis on Lake Superior, A Report to the International Joint Commission from the Great Lakes Research Advisory Board.
W77-00927 1002 5B

Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

Asbestiform Fibre Levels in Lakes Superior and Huron,
W77-02753 1006 5B

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

The People's Lake,
W77-03594 1007 5G

Asbestos in Potable Water,
W77-06016 1012 5A

Asbestos in Water: Mining and Processing Effluent Treatment,
W77-06218 1013 5D

United States v Reserve Mining Company (Discharge of Taconite Tailings into Lake Superior Causing Discoloration of Surface Water).
W77-10499 1021 6E

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

ASBESTOS-CEMENT PIPE
Asbestos in Potable Water,
W77-06016 1012 5A

ASBESTOS MANUFACTURING INDUSTRY
Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

ASCARIS-SUUM EGGS
The Role of Mollusks as Benthos Components in Purification of Water Bodies from Ascaris Suum Eggs, (In Russian),
W77-02230 1005 5G

ASCOPHYLLUM SP.
Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

ASCOPORES
An Epidemiological Study of Mummy Berry Disease of Highbush Blueberry,
W77-11928 1023 3F

ASELLUS MERIDIANUS
Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

ASH
Observations of an Ash Lagoon Spill on the New River, Virginia,
W77-12219 1023 5B

ASH CONTENT
Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

ASHEPOO ESTUARY (SC)
A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

ASHLEY VALLEY (UTAH)
Hydrologic Evaluation of Ashley Valley, Northern Uinta Basin Area, Utah,
W77-10564 1021 2A

ASHTABULA HARBOR (OHIO)
Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

ASHTABULA RIVER (OHIO)
Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

ASHUELOT RIVER (NH)
Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

ASIA
Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

*A Study of Maximum Values of Within-Storm Rainfall,
W77-01127 1003 2B

Dynamical Abnormalities Associated with Drought in the Asiatic Summer Monsoon,
W77-01128 1003 2B

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Genetic Analysis of the Suspended Load Discharge of Mountain Rivers,
W77-10778 1021 2J

ASIATIC CLAM
Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

ASIATIC CLAMS
Effects of Potassium on Adult Asiatic Clams, Corbicula Manilensis,
W77-03119 1007 5C

ASPEN
Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Elements in Leaves of a Trembling Aspen Clone by Crown Position and Season,
W77-06441 1013 2I

ASPEN-BIRCH FOREST
Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

ASPERGILLUS
Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

ASPHALT
Trace Organic Components as Fingerprints in Gas Chromatographic Identification of Spilled Asphalts,
W77-00085 1001 5A

Influence of an Inserted Asphalt Layer on the Plant Yield on a Light Soil, (In Polish),
W77-00513 1001 3F

Asphalt-Rubber Mixtures for Seepage Control,
W77-08195 1017 4A

Development of a Low Cost Asphalt-Rubber Membrane for Water Harvesting Catchments and Reservoir Seepage Control,
W77-08601 1018 3B

Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

An Asphalt Incorporator and Packer for Lining Irrigation Ditches,
W77-11411 1022 4A

ASPHALT-PLASTIC-ASPHALT-CHIP SEEPAGE BARRIER
Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

ASPHALT RUBBER MEMBRANES
Development of a Low Cost Asphalt-Rubber Membrane for Water Harvesting Catchments and Reservoir Seepage Control,
W77-08601 1018 3B

ASPHALTIC CONCRETE
Asphaltic Concrete Sludge Drying Beds,
W77-05525 1011 5D

ASPHALTS
Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

ASPHYXIATION
Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

ASSATEAGUE ISLAND
Assateague Ecological Studies.
W77-03381 1007 5C

ASSATEAQUE ISLAND (MD-VA)
Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

ASSAY
Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
W77-06505 1013 5A

Nitrogen Fixation in Aquatic Environments--A Critical Study of Acetylene Reduction Assay,
W77-09490 1019 5A

ASSESSMENT
A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

Environmental Assessment: The Ecological Dimension,
W77-08034 1016 6G

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

ASSESSMENTS
Water Quality Control and Tax Incentives: A Panacea for Water Pollution,
W77-06552 1013 5G

River-Quality Assessments,
W77-11379 1022 5B

ASTACUS FLUVIATILIS
Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

ASTERIAS
Effects of Combination of Temperature and Hydrostatic Pressure on Asterias rubens,
W77-07308 1015 5C

ASTERIONELLA FORMOSA
Kinetics of Silicon-Limited Growth in the Freshwater Diatom Asterionella Formosa,
W77-02035 1004 5C

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

ASTERIONELLA SP.
Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

ASTRAN METHOD
Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

ASWAN DAM
Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

ASWAN DAM (EGYPT)
Some Effects of the Aswan High Dam on Water and Fishes of Lake Borullus, A. R. E.,
W77-02512 1005 5C

ASWAN HIGH DAM
Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

ATCHAFALAYA FLOODWAY (LA)
Digital Simulation of Aggradation and Degradation in Natural Streams,
W77-00818 1002 2J

ATCHAFALAYA RIVER BASIN (LA)
Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Simulation Studies of Flow and Sediment Transport Using a Mathematical Model, Atchafalaya River Basin, Louisiana,
W77-10867 1022 2J

ATHABASCA GLACIER (ALBERTA)
Volumetric Change of the Athabasca Glacier over the Last 100 Years,
W77-05792 1012 2C

ATLANTA (GEO)
Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

ATLANTIC COASTAL PLAIN
Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

An Integrated Approach to Delineating Contaminated Ground Water,
W77-06311 1013 5B

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

ATLANTIC COASTAL PLAINS
Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

ATLANTIC COD
Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

ATLANTIC CONTINENTAL SHELF
Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

ATLANTIC MANHADEN
Status of the Gulf and Atlantic Manhaden Fisheries and Implications for Resource Management,
W77-00389 1001 6C

ATLANTIC MENHADEN
Forecasts of Atlantic and Gulf Menhaden Catches Based on the Historical Relation of Catch and Fishing Effort,
W77-00388 1001 6C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Observations on the Effects of Gas Embolism in Captured Adult Menhaden,
W77-04425 1009 5C

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

ATLANTIC OCEAN
Geographical Variability of the Internal Wave Field: A Search for Sources and Sinks,
W77-00135 1001 2L

Sea Surface Temperature Fluctuations at Tidal Frequencies at Weather Ships Charlie and Delta,
W77-00137 1001 2L

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

An Investigation of a Cold Eddy on the Eastern Side of the Gulf Stream Using NOAA 2 and NOAA 3 Satellite Data and Ship Data,
W77-00364 1001 2L

Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

Phytoplankton Distribution in the Scotia Sea as Related to Vertical Water Circulation, (In Russian),
W77-01592 1004 5B

Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

Eddy Energy in the Oceans,
W77-01920 1004 2L

Wave Patterns Across the North Atlantic on September 28, 1974, from Airborne Radar Imagery,
W77-01921 1004 2L

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Distribution of Calcium Carbonate in Surface Sediments of the Atlantic Ocean,
W77-02133 1005 2L

Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Gulf Stream Kinematics Inferred from a Satellite-Tracked Drifter,
W77-02140 1005 2L

Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

Current Structure and Mixing in the Shelf/Slope Water Front South of New England,
W77-03087 1007 2L

Eddy Kinetic Energy in the Deep Western North Atlantic,
W77-03088 1007 2L

The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

High-Wave Conditions Observed Over the North Atlantic in September 1961,
W77-03090 1007 2L

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

Mean Circulation in Shallow Seas,
W77-03753 1008 2L

Nearshore Currents Off Long Island,
W77-03754 1008 2L

Measurements of a Small Near-Bottom Cyclonic Circulation Near the Gulf Stream Axis,
W77-03842 1008 2L

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Spectrum of Small-Scale Oceanic Temperature Gradients,
W77-03979 1008 2L

Abyssal Hydrography, Nephelometry, Currents, and Benthic Boundary Layer Structure in the Vema Channel,
W77-04004 1008 2L

An Oilspill Risk Analysis for the Mid-Atlantic Outer Continental Shelf Lease Area,
W77-04232 1009 5B

Investigations on the Phytoplankton of the Northern Central Atlantic: I. The Phytoplankton of the Offshore Region at 30 W Related to a Few Environmental Factors Determining the Production, (In German),
W77-05097 1010 5C

Aerosol in the GATE Area and Its Radiative Properties,
W77-05131 1011 2K

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Monsoon Rains Over West Africa,
W77-06322 1013 2B

Transport Pathways of Polychlorinated Biphenyls in Atlantic Water,
W77-06469 1013 5B

On the Characteristics and Circulation of the Southwestern Atlantic Ocean,
W77-06524 1013 2L

Circulation and Hydrographic Structure Over the Ghana Continental Shelf During the 1974 Upwelling,
W77-06893 1014 2L

High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-06911 1014 5B

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Hydrothermal Processes in the Atlantic Ocean Crust, 26 Degrees N,
W77-08681 1018 2K

Preliminary Summary of the 1976 Atlantic Margin Coring Project of the U.S. Geological Survey,
W77-09089 1018 2L

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

Tracking a Gulf Stream Ring with a Free Drifting Surface Buoy,
W77-12300 1024 2L

Wind Stress on the Ocean Over the Eastern Continental Shelf of North America,
W77-12551 1024 2L

ATLANTIC SALMON

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Temperature-Induced Changes in Acute Toxicity of Zinc to Atlantic Salmon (Salmo Salar),
W77-03049 1006 5C

Regulation of Oxygen Consumption by Incident Illumination in Embryonated Ova of Atlantic Salmon Salmo Salar L.,
W77-03051 1006 5C

Abundance and Population Dynamics of Parasites Infecting Atlantic Salmon (Salmo Salar) in Trout Brook, New Brunswick, Canada,
W77-03053 1006 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

ATLANTIC SILVERSIDE

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

ATMOSPHERE

IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

Comments on the Storage of Water Vapour in the Atmosphere over South Africa,
W77-01365 1003 2B

ATMOSPHERE

On the Possible Detection of Tsunamis by a Monitoring of the Ionosphere,
W77-01918 1004 2L

Program Report-FY 1975, Atmospheric and Geophysical Sciences Division, Physics Department.
W77-02157 1005 2B

The Polarization Characteristics of Lidar Scattering from Snow and Ice Crystals in the Atmosphere,
W77-06512 1013 2C

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Investigation of the Effects of Nonhomogeneous (or Nonstationary) Behavior on the Spectra of Atmospheric Turbulence,
W77-06678 1014 2B

Studies of Earth Simulation Experiments,
W77-12568 1024 2B

ATMOSPHERIC DATA

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

ATMOSPHERIC DISPERSION

Atmospheric Dispersion Characteristics in the Louisiana Coastal Zone,
W77-05132 1011 5A

ATMOSPHERIC DISTURBANCES

Control of Mesoscale Disturbance by Synoptic Conditions,
W77-05138 1011 2H

ATMOSPHERIC DUST

Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

ATMOSPHERIC EVAPORATION PONDS

Treatment of Wood Preserving Wastewater,
W77-04181 1009 5D

ATMOSPHERIC FORECASTING

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

ATMOSPHERIC GAS

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

Sources of Gas Supersaturation in Water,
W77-06100 1012 5B

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

ATMOSPHERIC GASES

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

Gas Bubble Disease,
W77-06018 1012 5C

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

ATMOSPHERIC INVESTIGATIONS

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

ATMOSPHERIC MODELS

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

ATMOSPHERIC PRESSURE

Sewage Disposal System,
W77-04675 1010 5E

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Fluctuations in the Waterlevel in Wells Due to Variations in Atmospheric Pressure,
W77-11606 1023 4B

A Long-Term (1860-1970) Change in the Regime of Barometric Pressure at Jerusalem and Its Relation to Rainfall,
W77-12827 1024 2B

ATMOSPHERIC RADIATION

Aerosol in the GATE Area and Its Radiative Properties,
W77-05131 1011 2K

ATMOSPHERIC TURBULENCE

Investigation of the Effects of Nonhomogeneous (or Nonstationary) Behavior on the Spectra of Atmospheric Turbulence,
W77-06678 1014 2B

ATOMIC

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

ATOMIC ABSORPTION ANALYSIS

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

ATOMIC ABSORPTION SPECTROMETRY

Trace Element Content in the Bottom Sediments and Water of the Rivers Przemsza and Vistula in the Section of its Most Intense Pollution, (In Polish),
W77-04079 1008 5A

Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

ATOMIC ABSORPTION SPECTROPHOMETRY

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

ATOMIC ABSORPTION SPECTROPHOTOMETRY

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

ATOMIC ABSORPTION TECHNIQUE

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

ATOMIC ADSORPTION STUDIES

Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume 4, (Analytical Methods for Sewage Sludge Analysis),
W77-07614 1016 5A

ATP

Improved Method for the Determination of ATP in Lakewater, (In German),
W77-07578 1015 5A

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

ATRAZIN

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

ATRAZINE

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

ATRIPLEX CANESCENS

Revegetating Coal Mine Spoils in New Mexico: A Laboratory Study,
W77-05114 1011 5G

ATTACHED ALGAE

The Effect of Secondarily Treated Sewage on the Algal Populations of the Williamantic/Shetucket Rivers,
W77-09096 1018 5C

ATTALA COUNTY (MISS)

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

ATTENUATION
Leachate Attenuation in Undisturbed and Remoulded Soils,
W77-02403 1005 5B

Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Attenuation Mechanisms of Pollutants Through Soils,
W77-02408 1005 5B

Second Approximation to Gravity Wave Attenuation,
W77-05366 1011 8B

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

ATTENUATION COEFFICIENT (WATER)
Measurement of the Attenuation of Electromagnetic Radiation by Water in the Visible Region of the Spectrum,
W77-08293 1017 1A

ATTERBURY WATSHED (ARIZ)
A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

ATTITUDES
Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

Effectiveness of Information Transfer Through Water Resources Researcher/User Group Interaction,
W77-00151 1001 10D

Evaluation of Recreational Sites,
W77-00387 1001 6B

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

The Attitude and Interest of the Environmental Protection Agency in Multiple Objective Planning of Water and Related Land Resources,
W77-01153 1003 5G

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

Attitudes and Interactions of Citizen Advisory Groups and Governmental Officials in the Water Resources Planning Process,
W77-04294 1009 6B

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Attitudes of Professionals in Water Management Toward the Use of Water Quality Indices,
W77-06353 1013 5G

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

Discriminant Analysis of Characteristics Determining Acceptance or Rejection of Nuclear Power,
W77-08109 1017 6B

Citizen Participation in Water Policy Formation,
W77-08603 1018 6B

The Structural Analysis of Environmental Perception and Cognition: A Multidimensional Scaling Approach,
W77-08722 1018 6B

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

Anti-Pollution Behavior: A Function of Perceived Outcome and Locus of Control,
W77-09378 1019 6G

Binghamton Wastewater Management Study: Public Involvement Appendix.
W77-09388 1019 5G

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

Citizen Perception of Coastal Area Planning and Development: A Study of the Attitudes and Knowledge of Louisianas,
W77-10932 1022 6B

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

AU SABLE RIVER (MICH)
Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

AUDUBON SOCIETY
The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

AUGER-TYPE FOOTINGS
Nonaxial Uplift Tests on Straight and Belled Auger Model Footings,
W77-01683 1004 8G

AURELIA AURITA
Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

AUSTRALIA
Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

A Water Balance Model and Supply Index for Wheat in South Australia,
W77-00444 1001 3F

The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

A Comparative Study of the Limnology of Three Maar Lakes in Western Victoria (Australia), 1. Physiography and Physicochemical Featues,
W77-00447 1001 2H

Yellow Substance (Gelbstoff) and its Contribution to the Attenuation of Photosynthetically Active Radiation in some Inland and Coastal South-Eastern Australian Waters,
W77-00448 1001 5C

Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Nutrient Status of the Sediments in Lake Mulwala, 1. Total Phosphorus,
W77-00450 1001 5C

Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

Hydrogeochemistry of the Genoa River Basin, New South Wales - Victoria (Australia),
W77-00452 1001 2K

Seasonal Succession and Vertical Distribution of Phytoplankton in Lake Hayes and Lake Johnson, South Island, New Zealand,
W77-00517 1001 5C

Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

Flood Plain Management Alternatives in the Maitland Area (Australia),
W77-00932 1002 4A

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

Flood Mitigation Strategies: The Role of Insurance and Structural Measures,
W77-00934 1002 6F

Flood Standards - The Role of Engineering Institutions,
W77-00935 1002 6F

Frequency Analysis of Flood Data in Queensland (Australia),
W77-00936 1002 4A

The Mathematical Modelling of Rivers,
W77-00941 1002 2E

Flood Envelopes and Frequencies for the Brisbane River (Australia),
W77-00942 1002 4A

A Stage-Damage Curve for the Brisbane River (Australia),
W77-00943 1002 4A

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

Case Study of Effect of Increased Urbanisation on Flood Damage for Moggill Creek, Brisbane (Australia),
W77-00945 1002 4C

Statistical Sensitivity of Parameters in a Rainfall-Runoff Model,
W77-00948 1002 2A

Development of a Continuous Urban Rainfall-Runoff Model,
W77-00949 1002 2A

The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

An 'Environmental' Approach to Stormwater Management in the Adelaide Hills (Australia),
W77-00953 1002 4A

Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Effects of Soil Conservation Treatment on Runoff and Sediment Loss from a Catchment in Southwestern New South Wales, Australia,
W77-02772 1006 4D

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

The Composition of Rainwater at Two Sites Near Townsville, Qld. (Australia),
W77-03279 1007 2K

Aspects of the Chemical Variability of some Tasmanian Inland Waters (Australia),
W77-03283 1007 2K

Chemistry of Salt Lakes and Other Waters in the Sub-Humid Regions of Tasmania (Australia),
W77-03284 1007 2H

Stability of Ionic Proportions in Five Salt Lakes in Victoria, Australia,
W77-03285 1007 2H

Chemical Composition of Some Inland Surface Waters in South, Western, and Northern Australia,
W77-03286 1007 2K

Wind-Induced Water Level Oscillations in Shallow Lagoons,
W77-03287 1007 2H

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

The Integration of Desalination Plant with Existing Australian Water Resources,
W77-04018 1008 3A

Erosion Control,
W77-04315 1009 4D

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Critical Duration of Rainfall for Flood Estimation,
W77-05342 1011 2B

Standards for Interchange of Water Resources Data on Computer Media,
W77-05523 1011 7C

Werribee River Basin: Proposals for Water Resources Management,
W77-05524 1011 4A

The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

A Descriptive Catalogue of the Australian Representative Basins 1975.
W77-05816 1012 4D

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding,
W77-05947 1012 4D

Quality Characteristics of Urban Storm Water in Sydney, Australia,
W77-05963 1012 5B

The Pastoral Zone--Reprieved,
W77-06231 1013 2B

Runoff and Erosion,
W77-06236 1013 4D

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Purifying Water,
W77-07061 1014 5D

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Reduction in Sewage Contamination in Sydney Rock Oysters,
W77-07946 1016 5G

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Natural Stream Temperature Variations in a Catchment,
W77-09039 1018 5B

Groundwater Resources of Australia.
W77-09103 1019 4B

Water Resource and Land Use Problems in Western Australia,
W77-09296 1019 4C

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

On the Causes of Local Climatic Anomalies, With Special Reference to Precipitation in Washington State,
W77-09355 1019 2B

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

An Ecosystem Approach to the Planning of Water Pollution Control,
W77-10367 1021 5G

A New Code for Reducing Stream Siltation,
W77-10369 1021 4D

Approach to Liquid Effluent Control in a Nitrogenous Fertilizer Plant,
W77-10370 1021 5G

Variations in Effluent Quality and the Implications for Setting Effluent Standards,
W77-10371 1021 5G

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

Efficiency in Industrial, Municipal and Domestic Water Use,
W77-10375 1021 6D

Field Study of Evaporation - Analysis of Data From Eucumbene, Cataract, Manton and Mundaring,
W77-10376 1021 2D

Effects of Siltation on Rates of Recharge,
W77-10378 1021 4B

Analysis of the Movement of Water from Recharge Channels and Pits,
W77-10379 1021 4B

The Natural Abundance of N15 in the Soil-Water System of a Small Catchment Area,
W77-11081 1022 2G

Efficiency of Sprinkler Irrigation Systems,
W77-11084 1022 3F

The Evolution of the Australian Deserts,
W77-11112 1022 2A

Desalting in Australia: The Development of a New Process for Brackish Water,
W77-11117 1022 3A

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

Lakes Sorell and Crescent - A Tasmanian Paradox,
W77-11534 1023 5C

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

AUSTRALIAN ANCHOVY

Survival of Australian Anchovy (Engraulis Australis) Eggs and Larvae in a Heat Trap,
W77-04555 1009 5C

AUSTRIA

Hydrogeochemical Investigation of the Danube Water in Austria During the Years 1971 and 1972, (In German),
W77-00406 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Environmental Concerns of Wood-Processing Industries (In Austria),
W77-04829 1010 5G

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

A New Climatic Model for Glacier Behavior of the Austrian Alps,
W77-08235 1017 2C

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

Conventional and Radioactive Pollutants of Inland Waters in Austria,
W77-10410 1021 5B

Emergence of Trichoptera in 1972-74 from Two Streams Near Lunz (Austria), (In German),
W77-12609 1024 2I

AUTOANALYZER

National Eutrophication Survey: Data Acquisition and Laboratory Analysis System for Lake Samples,
W77-01788 1004 5A

AUTOCHTHONOUS MATTER

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

AUTOCORRELATION

Operational Assessment of Hydrologic Models of Long-Term Persistence,
W77-05957 1012 2E

AUTOMATED MONITORING

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

AUTOMATED SAMPLING

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

AUTOMATIC CONTROL

Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

Automation in Sewage Processing,
W77-00586 1002 5D

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

Utility of Urban Runoff Modeling, (Proceedings of a Special Session, Spring Annual Meeting, American Geophysical Union, Washington, D.C. 14 April 1976.
W77-02076 1005 2A

The Future of Automated Sprinkler Irrigation Systems,
W77-02092 1005 3F

Rex, A Computer Controlled Robot for in Situ Water Quality Monitoring,
W77-02814 1006 5A

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Automation: A Short History, But a Long Future,
W77-03469 1007 5D

A Scheme for Effective Control of Effluent pH,
W77-03802 1008 5D

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

A Dynamic Model and Computer Compatible Control Strategies for Waste Water Treatment Plants,
W77-05322 1011 5D

Automatic Waste Water Purification Control-with Cyanide Sensors at Inlet and Outlet Regulating Chemicals. Additions to Improve Cyanide Removal,
W77-05505 1011 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Process Control and Data Processing in Sewage Treatment Plants,
W77-06168 1013 5D

Computer Controls 55,000 Cu M/Day of Sewage.
W77-06169 1013 5D

Inline Sensor Tightens Control on Sludge Consistency to Within 1.4-1.5% Solids,
W77-07214 1015 5D

Waste Water Plants Use Less Instrumentation than Related Industries,
W77-07872 1016 5D

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

A Thermal Controller for the Short COD Determination,
W77-09415 1019 5A

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Overpurge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

Automatic Dissolved Oxygen Control,
W77-11752 1023 5D

Instrumentation and Automation Experiences in Wastewater-Treatment Facilities,
W77-11760 1023 5D

Selected Applications of Instrumentation and Automation in Wastewater-Treatment Facilities,
W77-11761 1023 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Actuators for Edinburgh's New Sewage Disposal Scheme.
W77-12429 1024 5D

Control Functions at Coppermills Works.
W77-12433 1024 5D

AUTOMATIC CONTROLS

Save Sludge Handling Costs by Level Control,
W77-07868 1016 5D

State of the Art in Sewage Treatment Plant Control,
W77-08515 1017 5D

Suspended Solids Measurement Gives Improved Control,
W77-08568 1017 5A

Automatic Control of Whitlingham Sewage Treatment Works Norwich,
W77-08585 1017 5D

Reliable pH Measurement When Effluent Conditions Get Tough,
W77-08592 1017 5A

AUTOMATIC HYDROLOGICAL NETWORKS

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

AUTOMATIC MEASUREMENT

A Method for the Automatic Measurement of Wave Frequency,
W77-03981 1008 2L

AUTOMATIC PICTURE TRANSMISSION

The Utilization of the APT and ATS Satellite Communication Systems in Coastal Research Programs,
W77-04483 1009 2L

AUTOMATION

Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

Automation in Sewage Processing,
W77-00586 1002 5D

Applications of Automatic Equipment to Water Analysis,
W77-00597 1002 5A

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

The Future of Automated Sprinkler Irrigation Systems,
W77-02092 1005 3F

He's Automating Dead Level Irrigation,
W77-02195 1005 3F

Making Surface Irrigation Work with Automation,
W77-02199 1005 3F

Alarm System Continually Monitors Plant Functions,
W77-02382 1005 8C

A New Method of Automatic Determination of Nitrate in Waste Waters and Polluted Surface Waters (Ein Neues Verfahren Zur Automatischen Nitrat-Bestimmung in Abwaessern und Belasteten Oberflaechenwaessern),
W77-03466 1007 5A

Automation: A Short History, But a Long Future,
W77-03469 1007 5D

An Automatic, Continuous, Modular Wastewater Monitoring System,
W77-03801 1008 5A

NASA Develops Water Monitoring System,
W77-06912 1014 5A

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

Automatic Monitoring of Soil Moisture Conditions in a Hillslope Spur and Hollow,
W77-07146 1015 2G

Philadelphia's Water System Automation Plan,
W77-08864 1018 5F

An Automatic Scanning Apparatus for Gamma Spectrometry for the Determination of the Moisture Content in Soil Columns, (In Dutch),
W77-09613 1020 2G

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Automated Hydrography for Channel Dredging,
W77-10316 1021 8B

Optimal Storage Control in a Combined Sewer System,
W77-10846 1022 5D

Instrumentation and Automation Experiences in Wastewater-Treatment Facilities,
W77-11760 1023 5D

Selected Applications of Instrumentation and Automation in Wastewater-Treatment Facilities,
W77-11761 1023 5D

A Survey of Commercially Available Automatic Wastewater Samplers,
W77-12481 1024 5A

AUTOMOTIVE EMISSIONS

Panel 'A' - Automotive Emissions,
W77-02052 1004 6G

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

AUTOMOTIVE WASTES

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

AUTORADIOGRAPHY

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

AUTOREGRESSION ANALYSIS

Formulas Used to Analyze Wind-Driven Currents as First-Order Autoregressive Processes,
W77-02670 1006 2L

AUTUMN

Vertical Migrations: Some Data on the Autumnal Behavior of Zooplankton in a Canal, (In French),
W77-05986 1012 5B

AUXILIARY AIR SYSTEM

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

AVAILABLE MOISTURE

A Water Balance Model and Supply Index for Wheat in South Australia,
W77-00444 1001 3F

AVAILABLE WATER

Water Requirements for Solar Energy,
W77-02122 1005 3E

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

Water Availability, Quality, and use in Alaska.
W77-03883 1008 6B

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

Availability of Water Supplies in Northwest Georgia,
W77-06336 1013 4A

Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Crop Production Potentials in India--A Water Availability Based Analysis,
W77-11091 1022 3F

Hydrology of the Sahara,
W77-12834 1024 6D

AVAILABLE WATER-HOLDING CAPACITY (AWHC)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

AVAILABLE WATERHOLDING CAPACITY (AWHC)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

AVALANCHE CONTROL

Alternate Methods of Avalanche Control (Interim) (1974-1975),
W77-05810 1012 2C

AVALANCHE RESEARCH

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

AVALANCHES

Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

Alternate Methods of Avalanche Control (Interim) (1974-1975),
W77-05810 1012 2C

Statistical Forecasting of Snow Avalanches, San Juan Mountains, Southern Colorado, U.S.A.,
W77-08055 1016 2C

Movement of Snow Avalanches,
W77-09716 1020 2C

Relation of Some Meteorological Elements to Avalanching in the Dukant River Basin (Western Tien-Shan),
W77-09718 1020 2C

An Acoustic Emissions Monitoring System for Avalanche Snowpacks,
W77-12368 1024 2C

Application of LANDSAT Data to Delimitation of Avalanche Hazards in Montane Colorado,
W77-12567 1024 2C

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

AVERAGE FLOW

Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
W77-00428 1001 2E

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

Streamflow Regionalization in British Columbia, No. 2, Regression of Mean Annual Flows on Physiographic Parameters,
W77-07434 1015 2E

Stochastic Structure of a Process of Average Monthly Flows,
W77-07651 1016 2E

AVOIDANCE

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

AVOIDANCE (FISH)

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

AVOIDANCE REACTION

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

AVOIDANCE REACTIONS (FISH)

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

AVOIDANCE RESPONSE

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

AVOIDANCE RESPONSES

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

AVOIDANCE TEMPERATURE

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

AVON RIVER

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

AVONDALE LOAM

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

AVULSION

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

Subsidence: Settling Down Within the Laws of Accretion, Reliction, Erosion, and Submergence,
W77-07238 1015 6E

Hodgen v Kliewer (Boundary Changes Proper for Accretion but not Avulsion).
W77-11187 1022 6E

AXIAL FLOW
Axial-Flow Pumps for Deep Waters.
W77-11550 1023 8C

AXISYMMETRIC JETS
The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

AZERBAIJAN
Light-Chestnut Long-Irrigated Soil of the Sharur Plain, (In Russian),
W77-00510 1001 2G

AZOV VIMBA
Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

B. EVERETT JORDAN LAKE (NC)
B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

BABINE LAKE (BRITISH COLUMBIA)
Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

BACCILARIOPHYCEA
Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

BACILLI
Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

BACK TITRATION OF ALKALINITY
The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

BACKPUMPING RUNOFF
Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

BACKWASH TECHNIQUES
Backwashing of Granular Filters,
W77-07037 1014 5D

BACKWASHING
Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

BACKWATER
Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Flow at Grade-Break from Mild to Steep Slopes,
W77-03746 1008 8B

Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

Computer Applications for Step-Backwater and Floodway Analyses,
W77-09090 1018 4A

Mathematical Modeling of Scour and Deposition,
W77-11207 1022 8B

Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

BACKWATER MODELS
Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

BACTERIA
Decrease of Bacterial Content in Different Types of Stabilization Ponds,
W77-00080 1001 5D

Number, Generation Time and Production of Bacteria in Water of the Saratov Reservoir, (In Russian),
W77-00143 1001 5C

Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

Hygienic Aspects of Microbial Contamination of Water Basins, (In Russian),
W77-00454 1001 5B

Denitrification With a Bacterial Disc Unit,
W77-00550 1002 5D

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

Effects of Cadmium and Lead upon the Indigenous Heterotrophic Microflora in the Aqueous Environment of the Brackish Estuary-Water of the River Weser, (In German),
W77-01566 1004 5C

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

Biological Monitoring: Substantiation and Experience in Organization, (In Russian),
W77-02235 1005 5A

The Effect of Current Velocity and Changes in Water Level on the Composition of the Planktonic Ciliate Population of the Danube River, (In Hungarian),
W77-02236 1005 5C

Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Water Fowl Refuge Effect on Water Quality: I. Bacterial Populations,
W77-02513 1005 5C

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Bacterial Degradation of Polychlorinated Biphenyls II. Rate Studies,
W77-02851 1006 5C

Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

Biogeochemical Development of the Lake of Geneva (Switzerland) from 1957 to 1973: Part III, (In French),
W77-03144 1007 5C

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

Behaviour in Conventional Sewage Purification Processes of Coliform Bacteria with Transferable or Non-Transferable Drug-Resistance,
W77-03435 1007 5D

Microbial Dealings with Heavy Metals,
W77-03666 1008 5C

Mercury and Mercurial Resistance Determined by Plasmids in Escherichia Coli and Pseudomonas Aeruginosa,
W77-03667 1008 5C

Bacterial Mobilization of Mercury in Chesapeake Bay,
W77-03670 1008 5C

Investigations on the Influence of Salt Concentration on the Activity of Bacterial Populations from Fresh and Waste Waters, (In German),
W77-04065 1008 5C

Studies on the Recurrence of Bacterial Flora in Drinking Water After Ozonization, (In German),
W77-04074 1008 5F

Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

Bacterial Assimilation of Organic Matter in Waters with Various Pollution Levels, (In Russian),
W77-04081 1008 5B

Microcalorimetric Investigations in Polluted Surface Waters, (In German),
W77-04091 1008 5A

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

Microbiological Characteristics of the Ros/ River and Some of Its Tributaries, (In Russian),
W77-04093 1008 5C

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

Behavior of Pathogenic and Sanitary-Indicator Bacteria Under Conditions of Water Pollution by Organophosphorus Pesticides, (In Russian),
W77-04099 1008 5C

Mutual Effect of Zooflagellates, Algae and Bacteria, (In Russian),
W77-04137 1009 5C

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

Tasks and Principles of Biological Analysis of the Degree of Pollution of Water Bodies, (In Russian),
W77-04598 1009 5A

Effects of Agricultural Land Uses on Runoff Quality,
W77-04612 1010 5C

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

Bacterial Distributions in Lake Erie (1967, 1970),
W77-05227 1011 5C

Language for Modeling Hydrobiological Processes, (In Russian),
W77-05329 1011 5B

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

Studies on the Algal Populations of the Saale River Near Jena: II. Comparison of the Seasonal Population Dynamics Above and Below the City, (In German),
W77-05606 1012 5C

Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

Adenosine Triphosphate (ATP) Levels in Microbial Cultures and a Review of the ATP Biomass Estimation Technique,
W77-06942 1014 5A

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

On the Self-Purification of Natural Waters, (In German),
W77-07038 1014 5G

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

Ozone Oxidation of Waste Water,
W77-07094 1014 5D

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

Studies on Fungal Propagules in the Weser Estuary (German Bight): I. Quantitative Data 1974, (In German),
W77-07583 1015 5C

Data 1973/1974 Regarding Hydrography and Water Quality in the Weser Estuary, Germany, (In German),
W77-07584 1015 5C

Bacteriologic Analysis in the Arosa, Vigo and Pontevedra Estuaries, (In Spanish),
W77-07589 1015 5A

Self-Purification in the Coastal Waters of the Black Sea, (In Russian),
W77-07592 1015 5C

Studies on Virus Inactivation by Chlorine During Water Disinfection, (In German),
W77-07595 1015 5F

Study of Bacteria Associated with the Rearing of Larvae of Marine Bivalves, (In French),
W77-07599 1015 5C

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

Factors Affecting Nitrification,
W77-07854 1016 5D

Concentration of Bacteria in Water Using the Ultrafiltration Method, (In French),
W77-07860 1016 5D

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

Microbial ATP Studies,
W77-07978 1016 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

Optimal Growth Temperatures and Media Parameters of Bacterial Communities from Lakes of Different Trophic States,
W77-07994 1016 5C

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Extracellular Release in Planktonic Bacteria,
W77-07996 1016 5C

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

Reproduction Rate and Productivity of Bacteria in the Ponds of the Karamet-Niyaz Fishery Farm, (In Russian),
W77-08462 1017 5C

Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Rapid Agar Pour-Plate Technique for Detection and Enumeration of Faecal Coliforms in Sewage,
W77-08520 1017 5A

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Ecological Studies on Algal-Lysing Bacteria in Fresh Waters,
W77-09469 1019 5C

Evaluation of Petroleum-Degrading Potential of Bacteria from Water and Sediment,
W77-09472 1019 5B

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

Virus and Bacteria Removal from Waste Water by Rapid Infiltration Through Soil,
W77-09860 1020 5D

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

Microorganisms Oxidizing Petroleum and Petroleum Products in the Presence of Higher Aquatic Plants, (In Russian),
W77-10250 1021 5C

Bacterial Denitrification - A Review,
W77-10373 1021 5D

Soils Infiltration and Evaporation of Wastewater by Aerobic Processes,
W77-10628 1021 5D

Krakstad Waste Water Facility: The First to be Equipped with Contact Rolls for Biological Purification (Krakstad renseanlegg forst med kontaktvalser til biologisk rensing),
W77-10629 1021 5D

Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

Biology and Biotechnology of Waste Water Treatment (Biologie und Biotechnologie der Abwasseraufbereitung),
W77-10650 1021 5D

Holozoic Nutrition of the Ciliated Protozoa: Its Consequences in the Natural and Artificial Purification of Water, (In French),
W77-10708 1021 5C

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Development of Plankton Organisms of an Eutrophic Reservoir and their Interaction with a Radioactive Environment, (In Russian),
W77-11020 1022 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

A Yearly Cycle of Changes in Dynamics of Production of the Chemoautotrophic Bacteria in Bottom Sediments of a Water Body,
W77-11505 1023 5C

Distribution of Nitrifying and Heterotrophic Microorganisms in Cutover Peats,
W77-11651 1023 5C

Experience with the Bacteriological Control of Waste Water Purification (A szennyviztisztas bakteriologiai ellenorzesenek tapasztalatai),
W77-11725 1023 5D

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Disinfection, (Literature Review),
W77-11730 1023 5D

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

Nutrition of Bosmina Coregoni Baird (Cladocera), (In Russian),
W77-12931 1024 2I

Bottom Microflora and Benthos of Lake Dal'Neye (Kamchatka), (In Russian),
W77-12988 1024 5C

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

BACTERIA REMOVAL PROCESSES

Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

BACTERIA SURVIVAL RATE
Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

BACTERIAL ASIMILATION
Bacterial Assimilation of Organic Matter in Waters with Various Pollution Levels, (In Russian),
W77-04081 1008 5B

BACTERIAL CLEARANCE
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

BACTERIAL DENITRIFICATION RATES
Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

BACTERIAL DISEASES
Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

BACTERIAL EXTRACTS
The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

BACTERIAL GROWTH
Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

BACTERIAL POPULATION STUDIES
Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

BACTERIAL PROTEINS
Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

BACTERIAL REMOVAL
Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

BACTERICIDES
Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

The Influence of Carbon-Nitrogen Ratio on the Chlorination of Microbial Aggregates,
W77-03414 1007 5D

Bactericidal Action of Electrohydraulic Effect in Water, (In Russian),
W77-04088 1008 5C

The Bactericidal Effect of Bdellovibrio Bacteriovorus, One of the Organisms Effective in Auto-Purification of Water, (In Turkish),
W77-05494 1011 5C

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

BACTERIO-PLANKTON
Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

BACTERIOLOGICAL POLLUTION
A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

BACTERIOLOGICAL POLLUTIONS
Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

BACTERIOLOGICAL STUDIES
Bacteriological Characteristics of the Coast Waters in the District of Catania (Italy), (In Italian),
W77-04084 1008 5G

BACTERIOLOGY
Hydromineral Deposits at Volvic, (In French),
W77-04656 1010 2K

Bacteriology of Chesapeake Bay Surface Waters,
W77-07382 1015 5C

Bacteriological Studies in the Cienaga Grande (Great Marsh) of Santa Maria, Columbia, (In Spanish),
W77-07512 1015 5C

Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

Bacteriologic Analysis in the Arosa, Vigo and Pontevedra Estuaries, (In Spanish),
W77-07589 1015 5A

Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

Possibilities and Role of Biological Analysis in Evaluating the Degree of Pollution of Water Bodies, (In Russian),
W77-08430 1017 5A

Evaluation of Porcelain Cup Soil Water Samplers for Bacteriological Sampling,
W77-11968 1023 5A

BACTERIOPHAGE
Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Adsorption as a Protective Mechanism for Waterborne Viruses,
W77-04997 1010 5F

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

Occurrence of Escherichia Coli B Bacteriophages in Municipal Wastewater and Their Removal and Inactivation by Activated Sludge Sewage Treatment,
W77-12140 1023 5A

BACTERIOPHAGES
Viruses in Water, (Virusse in Water), (In Afrikaans),
W77-01481 1003 5A

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

BAFFIN ISLAND (CANADA)
Anomalous Local Glacier Activity, Baffin Island, Canada: Paleoclimatic Implications,
W77-01333 1003 2C

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

BAGAEVSKO-SADKI (USSR)
Determination of the Critical Depth for Bagaevsko-Sadki Irrigation System, (In Russian),
W77-02928 1006 3F

BAILEY CANYON CREEK (NV)
Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

BAILING
Bailing,
W77-04288 1009 8C

The Cable Tool Drilling Machine, Part III,
W77-07286 1015 8C

BAIRDIELLA ICISTIA
Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

BAJA CALIFORNIA
Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

Red Tide in the Upwelling Region of Baja California,
W77-07169 1015 5C

BAJA CALIFORNIA

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

BAJOS

Hydrogeological Investigations in the Pampa of Argentina,
W77-08064 1016 7B

BALANCE OF NATURE

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

BALLOONS

Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

BALTIC LAKES

Studies on the Typology of Baltic Lakes with Different States of Eutrophication, (In German),
W77-07576 1015 5B

BALTIC SEA

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

On the Description of the Hydrographic State and the Circulation in the Baltic Deep Water,
W77-04006 1008 2L

Comparative Investigations on the Self-Purification in Polluted Waters of Different Salinities, (In German),
W77-04098 1008 5G

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

A Theoretical Framework for the Description of Estuaries,
W77-08057 1016 2L

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Experiences with the Use of the Aerological Method in Evaporation Studies in Northwestern Europe,
W77-09710 1020 2D

Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

The Behaviour of SR90 and CS137 in the Waters of the Baltic Sea,
W77-10394 1021 5B

Plutonium Isotopes in Aquatic Foodchains in the Baltic Sea,
W77-10395 1021 5C

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

Primary Production and Chlorophyll Content in the Baltic Sea: Part II. Chlorophyll-A Distribution,
W77-12591 1024 5C

The Relationship Between the Small Algal Flora of the Chain of Shallow Inlets to the South of Darss (South Baltic) and the Quality of These Waters, (In German),
W77-12717 1024 5C

BALTIC SEA (BROMARV AREA)

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

BALTIC SEA (WESTERN AREA)

Influence of Oxygen Tension on Metabolic Rate of Macrobenthos Species of Western Baltic and Kattegat, (In German),
W77-06274 1013 5C

BALTIMORE CANYON

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

BALTIMORE HARBOR

Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

BALTIMORE HARBOR (MD)

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

BALTIMORE (MD)

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

BALTIMORE PORT AREA (MD)

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

BAMBOO CONSTRUCTION

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

BANANAS

Initial Release of Nitrogen from Ureaform Under Field Conditions,
W77-02279 1005 3F

BAND APPLICATION (FERTILIZATION)

Band Application: A Better Less Costly Way to Fertilize Your Crops,
W77-12528 1024 3F

BANGLADESH

Brief Summary of the Hydrogeology of Bangladesh,
W77-06342 1013 4B

BANK EROSION

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

Integral-Equation Analysis of Flows Over Eroding Beds,
W77-00682 1002 2J

Geologic and Physical Factors Affecting Lake Champlain Shoreline Erosion,
W77-02222 1005 2J

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

BANK PROTECTION

Design and Performance of Rock Revetment Toes,
W77-00807 1002 8D

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

BANK STABILITY

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

BANK STABILIZATION

Submerged Burlap Strips Aided Rehabilitation of Disturbed Semiarid Sites in Colorado and New Mexico,
W77-00727 1002 4D

BANKS

Tidal Boundaries in Florida,
W77-01093 1003 6E

BANKS LAKE

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

BARATARIA BASIN (LA)

Barataria Basin: Salinity Changes and Oyster Distribution,
W77-02884 1006 5C

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Barataria Basin: Hydrologic and Climatologic Processes,
W77-05133 1011 2L

BARATARIA BAY (LA)
Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

BARBADOS (WEST INDIES)
Observations of Wave Height and Wave Celerity in the Surf Zone,
W77-07770 1016 2L

BARCELONA (SPAIN)
Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

BARCELONETA (PUERTO RICO)
Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

BARCHANS
Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

BARE SOIL
Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

BARGAINING MODELS
Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

BARGES
Oil Collection Barge,
W77-01204 1003 5G

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Sinkage and Resistance for Ships in Channels,
W77-08873 1018 8B

BARIUM
The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

BARK
Bark as Non-Inert Trickling Filter Medium for Pulp Mill Effluent,
W77-01666 1004 5D

Toxic Constituents in Woodroom Effluents,
W77-01667 1004 5B

Modified Water Extractor Recovers Bark Fines, Reduces Clarifier Upsets.
W77-04823 1010 5D

Purification of Waste Waters from Wet Barking (Rening av avloppsvatten fran vatbarkning),
W77-05698 1012 5D

Removal of Heavy Metal Ions from Waste Solutions by Contact with Agricultural Byproducts,
W77-10714 1021 5D

Pulp Mill Condensates Cleaned Biologically with the Aid of Bark (Massafabrikernas kondensatvatten renas biologiskt med hjalp av bark).
W77-10719 1021 5D

BARKING EFFLUENTS
Purification of Waste Waters from Wet Barking (Rening av avloppsvatten fran vatbarkning),
W77-05698 1012 5D

BARKLEY LOCK (KY)
Barkley Lock Prototype Tests Cumberland River, Kentucky,
W77-02960 1006 8B

BARLEY
Effect of Dehydration and Elevated Temperature on Leaf Cell Thermoresistance of a Drought-Sensitive Barley Cultivar, (In Russian),
W77-00503 1001 2I

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Interactions of Micronutrients in Barley Grown on Zinc-Polluted Soils,
W77-02287 1005 2G

Effects of Soil-Moisture Regimes on the Growth of Barley,
W77-03216 1007 3F

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Effects of Boron and Nitrogen on Grain Yield and Boron and Nitrogen Concentrations of Barley and Wheat,
W77-09655 1020 3F

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

BARLOSCHE KOLK (NETHERLANDS)
Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

BARNACLE LARVAE
Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

BARNACLES
Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Methylmercury Induced Injury of Single Barnacle Muscle Fibers,
W77-08700 1018 5C

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

BARNES ICE CAP (BAFFIN ISLAND)
Recumbent Folding in the Base of the Barnes Ice Cap, Baffin Island, Northwest Territories, Canada,
W77-05799 1012 2C

BARNES ICE CAP (CANADA)
A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

BAROTROPIC ALONGSHORE CURRENTS
U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

BAROTROPIC CURRENTS
On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

BARRE-MONTPELIER AREA (VT)
Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

BARRIER ISLANDS
Use of Outer Bars of Inlets as Sources of Beach Nourishment Material,
W77-01708 1004 2L

Assateague Ecological Studies.
W77-03381 1007 5C

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Scenery for Sale,
W77-05406 1011 6G

Exchange Through a Barrier Island Inlet: Additional Evidence of Upwelling Off the Northeast Coast of North Carolina,
W77-06654 1014 2L

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

The Citizen's Guide to North Carolina's Shifting Inlets,
W77-09327 1019 2L

BARRIER ISLANDS

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Internal Sedimentary Structures, Vertical Stratigraphic Sequences, and Grain-size Parameter Variations in a Transgressive Coastal Barrier Complex: The Atlantic Coast of Delaware,
W77-11663 1023 2J

Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

Hutchinson Island: Evaluation as a Potential Area of Critical State Concern.
W77-12585 1024 6G

BARRIERS

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

Floating Breakwaters,
W77-01222 1003 8B

Oil Fence,
W77-01230 1003 5G

Breakwater System for Creating Artificial Sandbars,
W77-01231 1003 8B

Containment Boom,
W77-01721 1004 5G

Water Gate,
W77-01729 1004 8C

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

Effects of Hurricane Surge Barrier on Hydraulic Environment, Jamaica Bay New York; Hydraulic Model Investigation,
W77-02966 1006 8B

Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

Poisoning of, and Obstruction to, Fish.
W77-03500 1007 6E

The Response of an Estuary to the Closure of a Mobile Barrier; Richmond Barrier on the Upper Thames Estuary,
W77-07366 1015 2L

Barrier for Water Carried Pollutants,
W77-08878 1018 5G

Skimmer Fence,
W77-08893 1018 5G

Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

BARROW CANYON

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

BARS

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

BARTONS CREEK (TN)

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

BASAL SLIDING

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

BASAL (SUB-SURFACE WATER)

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

BASAL TILLS

Basal Till Fabrics of Modern Alpine Glaciers,
W77-09704 1020 2C

BASALTS

Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

BASE COURSES

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

BASE FLOW

Estimated Groundwater Yield Following Strip Cutting in Pine Plantations,
W77-01426 1003 4C

Investigation of Two-Regime Well Flow,
W77-02142 1005 4B

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

Role of Ground-Water in the Formation of the Runoff and Water Chemistry of Rivers in the Lower Tunguska Basin,
W77-06506 1013 2F

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

The Spacial Distribution of Groundwater Discharge into the Littoral Zone of a New Zealand Lake,
W77-09341 1019 2F

Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

BASE FLOW RECESSION

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

BASE FLOW SEPARATION

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

BASEFLOW

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

BASELINE DATA

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

BASELINE STUDIES

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

Pre-Impoundment Biological Survey of Stockton Reservoir-Sac River, Missouri, August 1968,
W77-01793 1004 5C

Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

Freshwater Ecological Effects,
W77-02657 1006 5G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

The Metula Oil Spill,
W77-02679 1006 5C

Lake Whitefish (Corregonus Clupeaformis (Mitchill) in Southern Indian Lake, Manitoba,
W77-02821 1006 2H

Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

Reproduction of White Perch in the Lower Hudson River,
W77-03058 1006 2L

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

BASELINE STUDIES

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Development of Hardware and Procedures for In-Situ Measurement of Creep in Sea Ice,
W77-03276 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

Fast Current Oil Response System - Stage I, SVROS Development,
W77-03920 1008 5G

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

An Assessment of the Pollution of Cornish Coastal Waters,
W77-04061 1008 5B

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

The Present and Future of Coasts.
W77-04462 1009 2L

Coastal Environmental Impact Assessment: Lessons from Oil Spills,
W77-04472 1009 6G

The Use of Remote Sensing for Coastal Zone Monitoring,
W77-04475 1009 5B

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Potential Power-Generating Stations on the Atlantic Continental Shelf,
W77-04935 1010 6G

Wind-Driven and Thermohaline Circulation Over the Continental Shelves,
W77-04937 1010 6G

Tidal Water Movements,
W77-04938 1010 2L

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

Hydrocarbons in the Ocean,
W77-05139 1011 5B

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1974.
W77-05208 1011 2L

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Environmental Assessment,
W77-05381 1011 6G

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

The Marshes,
W77-05400 1011 2L

The Open Marine and Estuarine Waters,
W77-05401 1011 2L

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

Limnological and Planktonic Studies in the Waterton Lakes, Alberta,
W77-06680 1014 5C

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines.
W77-06850 1014 5A

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

The New York Bight Project - 1975; Stony Brook, Long Island, New York.
W77-06876 1014 5G

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

State Information Needs Related to Onshore and Nearshore Effects of OCS Petroleum Development,
W77-06934 1014 6G

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Physical Environment Atlas of Coastal Alabama,
W77-07322 1015 2L

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

Biological Long-Term Investigations of Swedish Lakes,
W77-07998 1016 5C

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

A Conceptual Representation of the New York Bight Ecosystem,
W77-08900 1018 5B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

An Examination of Some Physical and Biological Impacts of Dredging in Estuaries,
W77-08918 1018 5C

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

The Environmental Quality Monitoring Report.
W77-09231 1019 5G

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

NOAA Ship Delaware II Cruise 74-2 Report of May 13-21, 1974, Survey of Deepwater Dumpsite 106,
W77-09245 1019 5B

Investigation of Radioactive Waste Disposal at Deepwater Dumpsite 106--Sampling Program May 1974,
W77-09246 1019 5B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Physical Oceanography Historical Data for Deepwater Dumpsite 106,
W77-09248 1019 5B

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Preliminary Investigation of Benthic Resources at Deepwater Dumpsite 106,
W77-09252 1019 5C

Archibenthic and Abyssobenthic Fishes of Deepwater Dumpsite 106 and the Adjacent Area,
W77-09253 1019 5C

An Analysis of Plankton from Deepwater Dumpsite 106,
W77-09254 1019 5C

Systematic Analysis of Midwater Fishes Obtained at Deepwater Dumpsite 106 May 1974,
W77-09255 1019 5C

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Aquatic Baseline Survey of Selected Test Areas on Eglin Air Force Base Reservation, Florida,
W77-09499 1019 7C

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

An Investigation of the Nearshore Region of Lake Ontario IFYGL.
W77-10053 1020 5C

Illinois Coastal Zone Management Program: Component Study of Biological Communities.
W77-10505 1021 2H

Lake Ontario Atlas: Lake Temperatures,
W77-10508 1021 2H

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Louisiana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Suspended Sediment in the Littoral Zone at Ventnor, New Jersey, and Nags Head, North Carolina,
W77-10888 1022 2L

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Introduction: Rationale, Objectives and Logistics,
W77-10894 1022 2L

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

Studies of Primary Productivity and Phytoplankton Organisms in the Colville River System,
W77-10900 1022 5C

The Nearshore Benthos,
W77-10901 1022 2L

Colville River Delta Fisheries Research,
W77-10902 1022 2L

A Summary of Observations of Birds at Oliktok Point and Notes on Birds Observed Along the Colville River--Summer 1971,
W77-10903 1022 2L

Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Ct. First Year's Studies July 1974 - July 1975.
W77-10906 1022 6G

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Oil in Southern California Marshes,
W77-11034 1022 5C

The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

Social Cost of Oil Pollution,
W77-11892 1023 5G

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

A Study on the Effects of Maintenance Dredging on Selected Ecological Parameters in Gulfport Harbor, Mississippi.
W77-11901 1023 5C

Influence of Pump Storage and Generation on Commercial Fisheries Potential of Reservoirs,
W77-11907 1023 5C

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 1: Receptors (Biota): Marine Mammals; Marine Birds; Microbiology.
W77-12964 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 2: Receptors (Biota): Fish; Plankton; Benthos; Littoral.
W77-12965 1024 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 4: Hazards; Data Management.
W77-12966 1024 6G

BASELINE STUDY

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

BASELNE STUDIES

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

BASIC DATA COLLECTIONS

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Allatoona Lake, Destratification Equipment Test, Appendix A, Operational and Water Quality Data, 1968.
W77-03307 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix B, Operational and Water Quality Data, 1969.
W77-03308 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix C, Operational and Water Quality Data, 1970.
W77-03309 1007 5G

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

Index of Surface Water Quality Records to September 30, 1973, Southwest Alaska,
W77-06328 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

Ground-Water Levels in Observation Wells in Oklahoma, 1975,
W77-09999 1020 7C

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

BASIN CHARACTERISTICS

Small-Stream Flood Investigations in Minnesota, October 1958 to September 1975,
W77-08481 1017 2E

BASIN MORPHOMETRY

Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

BASINS

The Two-Axis Method: A New Method to Calculate Average Precipitation Over A Basin,
W77-03755 1008 2B

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

Reservoir Basin Morphometry,
W77-05447 1011 4A

A Descriptive Catalogue of the Australian Representative Basins 1975.
W77-05816 1012 4D

Representative and Experimental Basins - Where Next,
W77-07781 1016 2A

A Theoretical Framework for the Description of Estuaries,
W77-08057 1016 2L

Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

BASS

Toxicity of Endrin and an Endrin-Methyl Parathion Formulation to Largemouth Bass Fingerlings,
W77-01066 1003 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Mass Rearing of the Bass Dicentrarchus Labrax L.,
W77-04525 1009 2I

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

Growth Rates of Subadult Largemouth Bass at 24 to 35.5C,
W77-05557 1011 5C

Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

The Age and Growth of the Largemouth Bass Micropterus Salmoides (Lacepede), in a Thermally Loaded Reservoir,
W77-05731 1012 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Effects of Water Velocity on Activity of Juvenile Striped Bass,
W77-11648 1023 5C

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

BASSETTE CREEK FLOOD CONTROL COMMISSION (MINN)

Public Participation in Water Resource Development,
W77-07526 1015 6B

BATCH LOADING EXPERIMENTS

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

BATHYMETRY

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

History of Dredging and Filling of Lagoons in the San Juan Area, Puerto Rico,
W77-06346 1013 5B

Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

BATHYTHERMOGRAPHS

Lake Superior Bathythermograph Data,
W77-01912 1004 2H

Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

BATON ROUGE (LOUISIANA)

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

BAULINE LONG POND

Seasonal Changes of Planktonic Crustacea in Two Newfoundland Lakes,
W77-11417 1022 5C

BAUXITE

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

BAY OF BENGAL (INDIA)

The Epibiotic Flora and Fauna of the Serpulid Zone in the Littoral Region on the Mukkan Coast (Bay of Bengal), (In Italian),
W77-00530 1002 2L

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

BAY OF FUNDY

Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

BAY OF FUNDY (NOVA SCOTIA)

Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

BAY OF QUINTE (LAKE ONTARIO)
Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

BAY OF QUINTE (ONTARIO)
Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Sedimentation: Measurements in Experimental Enclosures,
W77-07990 1016 5C

BAY OF TOKYO
The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

BAY OF TRIESTE (ITALY)
Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

BAY SCALLOP
Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

BAY SPRINGS LAKE (MISS)
Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

BAY WATERS
Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

BAYER 73
Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

BAYESIAN APPROACH
Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

BAYESIAN DECISION ANALYSIS
A Stochastic Sediment Yield Model for Bayesian Decision Analysis Applied to Multipurpose Reservoir Design,
W77-01892 1004 4D

BAYESIAN DECISION APPROACH
Economic Value of Low Flow Data,
W77-07537 1015 5D

BAYESIAN DECISION THEORY
Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

BAYESIAN DESIGN APPROACH
Economic Optimum Record Length,
W77-00117 1001 4A

BAYESIAN METHOD
Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

BAYESIAN METHODS
Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

BAYESIAN STATISTICS
Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

BAYOU FAFOURCHE (LA)
Sedimentation of a Flatland Watershed in Louisiana,
W77-00789 1002 4D

BAYOU FOUNTAIN (LA)
Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

BAYOU PLAQUEMINE BRULE
Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

BAYS
Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

The Epibiotic Flora and Fauna of the Serpulid Zone in the Littoral Region on the Mukkan Coast (Bay of Bengal), (In Italian),
W77-00530 1002 2L

Manganese in Narragansett Bay,
W77-00642 1002 5A

Macrophytic Algae of the Vostok Bay (Sea of Japan), (In Russian),
W77-01142 1003 5C

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

Reactions of White Sea Organisms to a Decrease of Salinity in Connection with Freshwater Discharge into Bays, (In Russian),
W77-02233 1005 2L

Zooplankton of the Region of Nosy-Be: VI. Pteropods, Heteropods: I. Holoneritic and Internal-Neritic Species; Contribution to the Study of a Tropical Eutrophic Bay, (In French),
W77-02416 1005 5C

Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

Oregons's Estuaries,
W77-02593 1006 2L

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

Biscayne Bay Symposium II,
W77-08961 1018 5G

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

United States V Joseph G Moretti, Inc (Court Approved Compromise for Restoration of Area Damaged by Development).
W77-11457 1022 6E

Saginaw Bay Water Circulation,
W77-12326 1024 2H

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

BAYS THEOREM

Design of Surface Water Data Networks for Regional Information,
W77-12154 1023 7A

BCM

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

BDELLOIDEA

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

BDELLOVIBRIO-BACTERIOVORUS

Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

The Bactericidal Effect of Bdellovibrio Bacteriovorus, One of the Organisms Effective in Auto-Purification of Water, (In Turkish),
W77-05494 1011 5C

BEACH EROSION

Coastal Erosion in Eastern Lake Michigan,
W77-00842 1002 2J

Shoreline Erosion: Implications for Public Rights and Private Ownership,
W77-00982 1002 6E

The Development and Implementation of the Coastal Construction Setback Line Law,
W77-01090 1003 6E

Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

Geologic and Physical Factors Affecting Lake Champlain Shoreline Erosion,
W77-02222 1005 2J

Beach Processes, Perrien County, Michigan,
W77-03095 1007 2J

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

A Cine-Camera Technique for Process Measurement on a Ridge and Runnel Beach,
W77-03325 1007 2L

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

Advancing to the Rear: A Strategy of Coastal Zone Management on Eroding Shorelines (Preliminary Discussion),
W77-04488 1009 2L

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-07549 1015 2H

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

Means and Method for Controlling Beach and Sandbar Erosion,
W77-08894 1018 8B

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Public Access to Receding Beaches,
W77-10462 1021 6E

Erosion Defense Structures on the Puget Sound Shoreline,
W77-11038 1022 4D

Beach Fill Stability and Borrow Material Texture,
W77-12566 1024 2J

BEACH NOURISHMENT

Use of Outer Bars of Inlets as Sources of Beach Nourishment Material,
W77-01708 1004 2L

Beach Nourishment Techniques; Report 1, Dredging Systems for Beach Nourishment from Offshore Sources,
W77-02965 1006 2J

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

BEACH PROFILES

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

BEACH RUN-UP

A Universal Form for Shoreline Run-Up Spectra,
W77-10973 1022 2L

BEACHES

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

Tri-State Conference Report: Methods for Beach and Sand Dune Protection,
W77-00193 1001 4D

On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

The Development and Implementation of the Coastal Construction Setback Line Law,
W77-01090 1003 6E

Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Water Motion on a Beach in the Presence of a Breakwater: 1. Waves,
W77-02474 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 2. Mean Currents,
W77-02475 1005 8B

Beach Nourishment Techniques; Report 1, Dredging Systems for Beach Nourishment from Offshore Sources,
W77-02965 1006 2J

Relationships Between Sand Input from Rivers and the Composition of Sands from the Beaches of Southern California,
W77-03324 1007 2L

A Cine-Camera Technique for Process Measurement on a Ridge and Runnel Beach,
W77-03325 1007 2L

BEACHES

Freedom of Beach,
W77-03584 1007 6E

The Annual Cycle of Wave Climates Along the East Coast of the United States,
W77-04482 1009 2L

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

Long-Period Waves on a Natural Beach,
W77-05157 1011 2L

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

Nature Conservancy V Machipongo Club, Inc. (Effects of Accretion on Easement).
W77-06059 1012 6E

Effects of Topography on the Circulation in and Near the Surf Zone--Linear Theory,
W77-06500 1013 2L

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

Property-Coastal Shores-Private Property Rights Upheld over Claimed Public Right to Recreational use of Beach-Implied Dedication, Easement by Prescription, Public Trust Through Custom and Grant, and Doctrine of Submergence not Applicable. Department of Natural Resources V. Mayor and Council of Ocean City, 274 Md. 1, 332 A.2d 630 (1975).
W77-07239 1015 6E

Observations of Wave Height and Wave Celerity in the Surf Zone,
W77-07770 1016 2L

Mechanism for Tapping the Surf Energy,
W77-08026 1016 8C

Governmental Interest in Protecting Beach from Environmental Damage Through Overuse Outweighs Due Process Right to Bath Nude,
W77-08124 1017 6E

Grain-Size Parameters of Insoluble Residues in Mixxed Terrigenous-Skeletal Carbonate Sediments and Sedimentary Rocks: Some New Zealand Examples,
W77-08848 1018 2L

Means and Method for Controlling Beach and Sandbar Erosion,
W77-08894 1018 8B

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

Beach Sand Transport: Distribution and Total Drift,
W77-09019 1018 2L

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

A Universal Form for Shoreline Run-Up Spectra,
W77-10973 1022 2L

The Texas Open Beaches Act: Public Rights to Beach Access,
W77-11156 1022 6E

Public Rights in Ocean Beaches: A Theory of Prescription,
W77-11157 1022 6E

Constitutionality of the Eckhardt Open Beaches Bill,
W77-11158 1022 6E

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

Who Owns the Beach. Massachusetts Refuses to Join the Trend of Increasing Public Access,
W77-11464 1022 6E

Practical Legal Remedies to the Public Beach Shortage,
W77-11468 1022 6E

Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

Beach Fill Stability and Borrow Material Texture,
W77-12566 1024 2J

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

BEACHS

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

BEANS

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

Nutrient Dilution-Antagonism Effects in Corn and Snap Beans in Relation to Rate and Source of Applied Potassium,
W77-02288 1005 3F

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

Subsurface and Furrow Irrigation Evaluation for Bean Production,
W77-11962 1023 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

Salt Tolerance of Beans Under a Sand Mulch Culture,
W77-12734 1024 3C

BEAR CREEK BASIN (SOUTHWESTERN ORE)

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

BEAR CREEK (IA)

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

BEAR LAKE AREA (UTAH-IDAHO)

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

BEAR RIVER BASIN (IDAHO)

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

BEAR RIVER COMPACT (IDA-UTA-WYO)

Bear River Compact,
W77-08155 1017 6E

BEAUFORT SEA

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Distribution of Low-Molecular-Weight Hydrocarbons in Southern Beaufort Sea,
W77-03793 1008 5B

Storm Surges in the Southern Beaufort Sea,
W77-03986 1008 2L

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

Seasonal Variation in the Nutrient Chemistry and Conservative Constituents in Coastal Alaskan Beaufort Sea Waters,
W77-10899 1022 2L

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

BEAUFORT SEA (ALASKA)
Arctic Continental Shelf Processes and Morphology Related to Sea Ice Zonation, Beaufort Sea, Alaska,
W77-11383 1022 2C

BEAVER CREEK (ARIZ)
Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

BEAVER RESERVOIR (ARK)
An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

BEAVER RIVER VALLEY (UTAH)
Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

BECKMANN CONVERSION
Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

BED CONFIGURATIONS
Development of Bed Configurations in Coarse Sands,
W77-10980 1022 8B

BED FORM GEOMETRY
Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

BED FORMS
A Cine-Camera Technique for Process Measurement on a Ridge and Runnel Beach,
W77-03325 1007 2L

Rollers and Ripples in Sand, Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders,
W77-03998 1008 2J

Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

BED LOAD
Adjustment of Stream-Channel Shape to Hydrologic Regime,
W77-00379 1001 8B

Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

Stochastic Characteristics of Sediment Motions,
W77-01140 1003 2J

Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

Stochastic Models of Sediment Motion on Flat Bed,
W77-03997 1008 2J

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Effect of Sediment Load on Stable Sand Canal Dimensions,
W77-09020 1018 8B

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

Speed of Inertial Bed Load Disturbances,
W77-10305 1021 8B

BED LOAD MOVEMENT
Speed of Inertial Bed Load Disturbances,
W77-10305 1021 8B

BED LOAD SAMPLERS
Bed Load Sampler for Streams with Sandy Bed,
W77-11208 1022 2J

BED RIPPLES
Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

BEDFORD BASIN (CANADA)
Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

BEDFORD BAY BASIN (NOVA SCOTIA)
Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

BEDROCK
Stratigraphy of the Paleocene and Lower Part of the Eocene in Western Tennessee,
W77-02315 1005 2F

Stress in an Elastic Bedrock Hump Due to Glacier Flow,
W77-08236 1017 2C

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

BEDROCK HUMPS
Stress in an Elastic Bedrock Hump Due to Glacier Flow,
W77-08236 1017 2C

BEDS
Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

BEDS

Encroachments on Navigable Lake.
W77-07264 1015 6E

Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

BEDS UNDER WATER

Shoreland Boundaries.
W77-01004 1002 6E

Ownership on Navigable Waterbottoms--California Company V Price Revisited,
W77-01078 1003 6E

Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

Effect of Temperature on Channel Resistance,
W77-06517 1013 8B

BEECH

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 2. Some Factors Influencing Oxygen Uptakes and Dehydrogenase Activities,
W77-12777 1024 2G

BEECH FORESTS

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 3. Some Factors Influencing the Activities of Polyphenol-Oxidising Enzymes,
W77-12778 1024 2G

BEECH RIVER (TENN)

Digital Simulation of a Drainage Basin,
W77-12082 1023 2A

BEEF CATTLE

Eutrophication Potential of Dairy Cattle Waste Runoff,
W77-09509 1019 5C

BEET SUGAR INDUSTRY

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

BEETS

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

BEGGIATOA

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

BEHAVIOR

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

Equipment and Techniques for Monitoring the Vertical Distribution of Fish in Shallow Water,
W77-04416 1009 5C

Dissolved Gas Supersaturation: Live Cage Bioassays of Rock Island Dam, Washington,
W77-04417 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Water Quality Standards,
W77-04436 1009 5C

Changes in Behaviour During Starvation of Herring and Plaice Larvae,
W77-04540 1009 5C

Effect of Prey Distribution and Density on the Searching and Feeding Behavior of Larval Anchovy Engraulis Mordax Girard,
W77-04541 1009 5C

Vital Activity Parameters as Related to the Early Life History of Larval and Post-Larval Lake Whitefish (Coregonus Clupeaformis),
W77-04542 1009 5C

Behavioral Thermal Regulation by Rainbow Trout in a Temperature Gradient,
W77-05568 1011 5C

Behavioral Thermoregulation by Bluegill Exposed to Various Rates of Temperature Change,
W77-05569 1011 5C

On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

Attainment of the Final Thermal Preferendum in Brown Bullheads Acclimated to Different Temperatures,
W77-07381 1015 5C

The Structural Analysis of Environmental Perception and Cognition: A Multidimensional Scaling Approach,
W77-08722 1018 6B

Dynamic Models and Computer Simulation of Wastewater Treatment Systems,
W77-10814 1022 5D

Simulation Aided Modeling of the Dynamic Behavior for some Elements of a Surface Water Treatment Plant,
W77-10815 1022 5F

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

BEHAVIOR PATTERNS

Daily Ration, Temperature Selection, and Activity of Bluegill,
W77-05570 1011 5C

BEHAVIORAL MECHANISMS

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

BEHAVIORAL RESPONSES

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

BEHAVIORAL SYMPTOMS

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

BEHAVIORAL TOXICITY INDEX

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

BEHAVIORAL TOXICOLOGY

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

BEIRUT (LEBANON)

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

BELANGER'S EQUATION

Exact Solution of Gradually Varied Flow,
W77-03085 1007 8B

BELFAST BAY (MAINE)

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

BELGIUM

Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Simulation of a Series of Daily Areal Mean Rainfalls for a Basin Using Rainfall Observations at a Reference Station Located Outside the Basin,
W77-07356 1015 2B

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

A Practical Apparatus for Quantitative Sampling of Epilithic Periphyton, (In French),
W77-09623 1020 7B

Investigation of the Hydrological Balance in a Peat Swamp,
W77-10768 1021 2F

Modification of River Beds and of the Courses of Rivers in Upper Belgium, (In French),
W77-12183 1023 6C

BELGIUM (BRUSSELS AREA)

Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

BELGIUM (CITY OF GHENT)

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

BELGIUM (MIRWART)

Annual Woody Productivity During a 10-Year Period at Mirwart (Belgium), (In French),
W77-09227 1019 2I

BELGIUM (VIRELLES-BLAIMONT)
Annual Woody Productivity During a 10-Year Period at Virelles-Blaimont, (Belgium), (In French),
W77-09143 1019 2I

BELLARY (INDIA)
Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

BELLE FOURCHE RIVER
Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

BELLE FOURCHE RIVER COMPACT
Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

BELLE GLADE AREA (FLA)
Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

BELLED FOOTINGS
Nonaxial Uplift Tests on Straight and Belled Auger Model Footings,
W77-01683 1004 8G

BELOIT (WIS)
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

BELONIFORM FISH
Helminth Fauna of Beloniform Fish, (In Russian),
W77-09403 1019 2I

BELORUSSIAN-SSR
Water Hardness and Incidence of Malignant Neoplasms Among the Population, (In Russian),
W77-02384 1005 5F

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

BELT FILTERS
Sludge Dewatering by Belt Filter.
W77-07905 1016 5D

BELUGA
Fecundity of Nelmuschka Coregonus Lavaretus Nelmuschka Pravdin and Its Ecological Background, (In Russian),
W77-00518 1001 2H

BENDERS' DECOMPOSITION
Simultaneous Investment and Allocation Decisions Applied to Water Planning,
W77-12168 1023 6A

BENDERS DECOMPOSITION ANALYSIS
Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

BENDING
Research Benefits in Water Resources Construction,
W77-08858 1018 6B

BENDING STRENGTH
Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

BENEFICIAL USE
Appropriation.
W77-01012 1002 6E

Water and Water Rights,
W77-01119 1003 6E

General Basis of Water Rights in Utah.
W77-03504 1007 6E

Talley V Carley (Priorities to Water in 1963 Amendment to 82 Oklahoma Statutes Annotated Section 1-A).
W77-03521 1007 6E

In-Stream Appropriation for Recreation and Scenic Beauty (Comment on Idaho Department of Parks V Idaho Department of Water Administration),
W77-05057 1010 6E

Recent Developments in the Recognition of Instream Uses in Western Water Law,
W77-06044 1012 6E

Water Rights in General.
W77-06061 1012 6E

Lowrey v. Hodges (Temporary Permits to Use Ground Water for Irrigation).
W77-06567 1013 6E

Water Rights Generally.
W77-06581 1013 6E

Abandonment of Water Rights,
W77-06582 1013 6E

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Snake River Land Co V State Board of Control (Beneficial Use of Water Held Sufficient Proof of Appropriation).
W77-08135 1017 6E

Reservoirs,
W77-08158 1017 6E

Should Rivers Have Running. Toward Extension of the Reserved Rights Doctrine to Include Minimum Stream Flows,
W77-08372 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Appropriation of Water.
W77-08405 1017 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

Salinity in the Colorado: An Interpretation of the Mexican-American Treaty of 1944,
W77-11171 1022 6E

BENEFICIATION
Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

BENEFIT MAXIMIZATION
Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

BENEFITS
A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Environmental Pollution Control and Health Benefits,
W77-02046 1004 6G

Benefits from Water Pollution Abatement, Recreation.
W77-04299 1009 5G

Public Law 92-500 Economic and Social Impacts: Technical Volume.
W77-04307 1009 5G

Introduction and Overview,
W77-05669 1012 6B

Research Benefits in Water Resources Construction,
W77-08858 1018 6B

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Quantification of Beneficial Effects of Sprinkler Irrigation Apart from Increase in Crop Yield, (In German),
W77-10726 1021 3F

BENGUELA CURRENT (WEST AFRICA)
A Note on Volumetric Considerations of Upwelling in the Benguela Current,
W77-06504 1013 2L

BENOMYL
The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

BENSON AND PIERCE COUNTIES (N DAK)
Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

BENTGRASS

Evaluation of Slow-Release Nitrogen Fertilizers on Pennpar Creeping Bentgrass,
W77-11389 1022 3F

BENTHIC COMMUNITIES

Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

BENTHIC COMMUNITY ANALYSIS

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

BENTHIC FAUNA

The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Pre-Impoundment Biological Survey of Stockton Reservoir-Sac River, Missouri, August 1968,
W77-01793 1004 5C

Biological Investigations of Tuttle Creek Reservoir, Kansas,
W77-01794 1004 5C

A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

A Preliminary Report on the Benthic Macroinvertebrates of Lake Superior,
W77-01801 1004 5C

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Toxicity of Crude Oils and a Dispersant to the Stony Coral Madracis Mirabilis,
W77-03196 1007 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

Aspects of Zoobenthos Ecology of the Mackenzie Delta, N.W.T.,
W77-07499 1015 5C

Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

Population Ecology and Production of Benthic Detritivores,
W77-07979 1016 5C

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
W77-08955 1018 5C

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

Distribution and Seasonal Variation of Benthic Fauna in Lake Manitoba,
W77-09484 1019 5C

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Analysis of Data from Biological Surveys of Streams: Diversity and Sample Size,
W77-09778 1020 5A

The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

Studies on the Bottom Fauna of Four Lakes in Eastern Hikkaido (Lakes Kusshyaro-Ko, Akan-Ko, Toro-Ko and Shikaribetsu Ko, (In Japanese),
W77-10028 1020 5C

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11525 1023 5C

Limnological Studies of the Island Area of Western Lake Erie,
W77-11926 1023 2H

The Effect of Feedlot Runoff on Community Structure in the Cottonwood River, Kansas,
W77-11972 1023 5C

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

Study of the Benthic Population of Deep Silts from the Gaspe Strait (Gulf of the Saint Lawrence), (In French),
W77-12466 1024 2L

BENTHIC FAUNAL

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

BENTHIC FLORA

Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Effects of Kraft Pulping Effluents on the Benthic Algal Populations in Northwestern Spain. I. Distribution and Abundance of Characteristic Fucaceae (Incidencia de vertidos industriales en la estructura de poblaciones intermareales. I. Distribucion y abundancia de Fucaceas caracteristicas),
W77-05690 1012 5C

Comparison of Benthic Diatom Communities in Lake Michigan and Lake Superior,
W77-06384 1013 5C

Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

Growth and Photosynthesis During the Formation of a Benthic Algal Community,
W77-09627 1020 5C

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

Bottom Microflora and Benthos of Lake Dal'Neye (Kamchatka), (In Russian),
W77-12988 1024 5C

BENTHIC INSECT COMMUNITIES

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

BENTHIC MACRO-INVERTEBRATES

Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

BENTHIC MACROINVERTEBRATES

New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

BENTHIC MARINE ENVIRONMENT

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

BENTHIC MICROBIAL COMMUNITY RESPIRATION

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

BENTHIC MUDS

Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

BENTHIC ORGANISM

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

BENTHIC ORGANISMS

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

BENTHICARB

Study on the Herbicidal Properties of Benthiocarb; Factors Affecting Herbicidal Activity and Its Behavior in Soil, (In Japanese),
W77-07387 1015 5B

BENTHIOCARB

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

BENTHIOCARB DETERMINATION

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

BENTHO

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

BENTHOS

Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Physical-Chemical and Planktonological Quantitative Studies of the Great Lake of Laffrey (Years 1970, 1971 and 1973), (In French),
W77-01019 1002 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

The Role of Mollusks as Benthos Components in Purification of Water Bodies from Ascaris Suum Eggs, (In Russian),
W77-02230 1005 5G

Survey of Macroinvertebrate Communities in the Provo River and Diamond Fork Systems,
W77-02548 1005 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 1006 5C

The Biomass and Production of the Macrobenthos of the Middle Course of the Saale River, (In German),
W77-02912 1006 5C

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

A Review of Clustering Techniques with Emphasis on Benthic Ecology,
W77-03372 1007 5A

Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Ecological Significance of Water Turbidity Exemplified by Ponds of the North Caucasus, (In Russian),
W77-04861 1010 5B

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

The Effect of a Thermal Effluent on the Benthos of Thomas Hill Reservoir, Missouri,
W77-05605 1012 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Influence of Oxygen Tension on Metabolic Rate of Macrobenthos Species of Western Baltic and Kattegat, (In German),
W77-06274 1013 5C

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

Effects of Sand Sedimentation on Colonization of Stream Insects,
W77-06407 1013 5C

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

Electrically Powered Sampler for Benthic Macroinvertebrates,
W77-06757 1014 7B

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Composition and Dynamics of the Bottom Animals in the Littoral Zone of Dojran Lake, Macedonia,
W77-07457 1015 5C

Phytomicrobenthos of the Kurtli Reservoir, (In Russian),
W77-07596 1015 5C

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Biological Assessment of the Water Quality of the Small Rivers Sora and Byurya (Yenisei Basin), (In Russian),
W77-07755 1016 5C

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Preliminary Investigation of Benthic Resources at Deepwater Dumpsite 106,
W77-09252 1019 5C

Archibenthic and Abyssobenthic Fishes of Deepwater Dumpsite 106 and the Adjacent Area,
W77-09253 1019 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Impact on Marine Benthos of Waste Water Discharge,
W77-09846 1020 5C

Stream Community Response to Road Construction Sediments,
W77-10182 1021 4C

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

Growth of Gymnodinium Type-'65, Causative Organism of Red Tide in Omura Bay, in Medium Supplied with Bottom Mud Extract,
W77-10707 1021 5C

The Nearshore Benthos,
W77-10901 1022 2L

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

Study of the Benthic Population of Deep Silts from the Gaspe Strait (Gulf of the Saint Lawrence), (In French),
W77-12466 1024 2L

Bottom Microflora and Benthos of Lake Dal'Neye (Kamchatka), (In Russian),
W77-12988 1024 5C

The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

BENTONITE

A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

BENZARTHRACENE

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

BENZENE

Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Hygienic Standardization of Disodium Salts of Meta-and Para-Diisopropylbenzene in Water Bodies, (In Russian),
W77-07590 1015 5C

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

BENZENEHEXACHLORIDE RESIDUES

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

BENZIDINE

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Toxic Pollutant Effluent Standards for Benzidine.
W77-08359 1017 5G

BENZIMIDAZOLE

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

BENZOPYRENE

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Permissible Level of Benzo(A)Plyrene in Water Bodies, (In Russian),
W77-03117 1007 5B

BERING SEA

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

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W77-00907 1002 6G

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W77-01828 1004 6G

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W77-01839 1004 6G

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W77-01842 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

Ice Movement and Distribution in the Bering Sea from March to June 1974,
W77-02482 1005 2C

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Observations of Medium-Scale Features Along the Seasonal Ice Edge in the Bering Sea,
W77-11809 1023 2C

BERING STRAIT

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

BERKELEY COUNTY (W VA)

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

BERKSHIRE HILLS (MASS)

Laminated Sediments in Holomictic Berkshire Lakes,
W77-08341 1017 2J

BERMUDA GRASS

Performance Characteristics of a Grassed-Waterway Transition,
W77-08849 1018 4D

Potassium Sources and Availability on a Deep, Sandy Soil of East Texas,
W77-09972 1020 2G

BERMUDAGRASS

Potassium Status of Some Alluvial Soils in Kentucky,
W77-09290 1019 2G

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

BERNALILLO AREA (N MEX)

Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

BERYLLIUM

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W77-01494 1003 5A

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W77-09382 1019 5G

Binghamton Wastewater Management Study: Comments Appendix.
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Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
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The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Transfer to Fish of Petroleum Paraffins and Organic Sulfur Compounds,
W77-10144 1021 5C

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Heavy Metals in the Gastropod Mollusc Haliotis Tuberculata (L.),
W77-10256 1021 5C

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

The Potential Toxicity and Bioaccumulation in Aquatic Systems of Trace Elements Present in Aqueous Coal Conversion Effluents,
W77-11540 1023 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Criteria Document for PCB's,
W77-12882 1024 5A

BIOACCUMULATION (MUSSELS)
Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

BIOACCUMULATION (PCB)
Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

BIOACCUMULATION (XENOBIOTICS)
Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

BIOASSAY
Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

A Rapid Method for Measuring the Acute Toxicity of Pulp Mill Effluents and Other Toxi-

cants to Salmonid Fish at Ambient Room Temperature,
W77-00336 1001 5C

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

Accumulation and Distribution of Selenium in Mussel and Shrimp Tissues,
W77-00873 1002 5C

Seasonal and Laboratory Variations in the Health of Grass Shrimp Palaemonetes Pugio: Dodecyl Sodium Sulfate Bioassay,
W77-00884 1002 5C

The Relationship of Malathion and its Metabolites to Fish Poisoning,
W77-00885 1002 5C

Nitrogen Fixation in the Rhode River Estuary of Chesapeake Bay,
W77-01059 1003 5C

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Wasserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

The Eutrophication Levels of Some South African Impoundments. I. Rietvlei Dam,
W77-01391 1003 5C

Eutrophication Levels of Some South African Impoundments. II. Hartbeespoort Dam,
W77-01392 1003 5C

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Algal Assays: Development and Application,
W77-01803 1004 5C

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W77-01804 1004 5C

The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges.
W77-01806 1004 5A

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

A Bioassay to Assess Wastewater Toxicity to Aerobic Biological Treatment,
W77-02081 1005 5D

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Concentrations of Copper, Iron, Lead, Nickel and Zinc in Freshwater Algal Blooms,
W77-02813 1006 5A

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Great Lakes Nutrient Assessment,
W77-04163 1009 5C

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Dissolved Gas Supersaturation: Live Cage Bioassays of Rock Island Dam, Washington,
W77-04417 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

Power Plants, Chlorine and Estuaries,
W77-05491 1011 5C

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Application of Biological Analysis in Investigations on Polluted Waters, (In Polish),
W77-05662 1012 5A

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

The Measurement of Temperature Tolerance: Verification of an Index,
W77-06764 1014 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Possibilities and Role of Biological Analysis in Evaluating the Degree of Pollution of Water Bodies, (In Russian),
W77-08430 1017 5A

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

Some Dissenting Remarks on 'Deleterious Effects of Corexit 9527 on Fertilization and Development',
W77-09593 1019 5C

Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

Microcystis Toxins: Isolation, Identification, Implications,
W77-10093 1020 5A

Apparatus for the Automatic Determination of Oxygen Consumption in Fish,
W77-10217 1021 5A

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

Daphnia Pulex Pulls Its Weight in Pulp Mill Toxicity Tests,
W77-10718 1021 5A

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

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W77-10951 1022 5C

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

Effects of Chlorine on the Copepod, Acartia Tonsa,
W77-11308 1022 5C

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

Proceedings of Workshop on Microorganisms in Urban Stormwater,
W77-11489 1022 5A

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Inactivation of Poliovirus in Wastewater Sludge with Radiation and Thermoradiation,
W77-11756 1023 5D

Chlorine Dissipation and Toxicity Presence of Nitrogenous Compounds,
W77-12042 1023 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

Long-Term Biotoxicity of Chlorine Species to Copepod Populations,
W77-12260 1024 5C

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

BIOASSAYS

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

BIOASSSAY

The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

BIOCENOSES

Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

Emergence of Trichoptera in 1972-74 from Two Streams Near Lunz (Austria), (In German),
W77-12609 1024 2I

BIOCENSES

Change of Biocenoses in Artificial Bodies of Water Due to Human Intervention, (In Russian),
W77-03618 1008 5C

BIOCHEMICAL DIGESTION

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

BIOCHEMICAL FERROUS IRON OXIDATION

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

BIOCHEMICAL OXIDATION (SEWAGE)

Factors Involved in Biochemical Oxidation of Sewage,
W77-06157 1013 5D

BIOCHEMICAL OXYGEN DEMAND

Respirometric Determination of BOD,
W77-00095 1001 5A

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

Method of Determining the Total Biochemical Oxygen Demand of Sewage with the Use of Various Nitrification Inhibitors, (In Russian),
W77-01579 1004 5A

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Treatment of Contaminated Condensates,
W77-01672 1004 5D

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

Chemical Pulping,
W77-02606 1006 5B

Sampling and Analysis of Stormwater Runoff from Urban and Semi-Urban/Rural Watersheds - Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities,
W77-02995 1006 5B

Technical Assistance Project Greeley Wastewater Treatment Facility, Greeley, Colorado. June-July, 1972,
W77-03368 1007 5D

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

Concentric Waste-Treatment Plant Saves Land, Cuts Cost,
W77-03427 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Flow Equalization by Use of Aeration Tank Volume,
W77-03446 1007 5D

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Intermittent Sand Filtration of Household Wasterwater,
W77-03452 1007 5D

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Effect of High Dissolved Oxygen Concentration in Activated Sludge Systems,
W77-03571 1007 5D

Inhibiting Nitrification in Wastewater Treatment Plants,
W77-03573 1007 5D

Nestle and Pollution Control,
W77-03607 1008 5D

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

In-Plant, Outside Pollution Evils, Energy Saving Top AATCC Concerns.
W77-03620 1008 5G

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

Processes of Dissolved Oxygen Depletion in Tims. Ford Reservoir,
W77-04327 1009 5C

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal,
W77-04641 1010 5D

Wastewater Treatment Facility Evaluation, Rickenbacker AFB OH,
W77-04651 1010 5D

Set Sewer Rates That Reflect Use,
W77-04663 1010 5G

Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

BOD as Pollutional Parameter,
W77-04715 1010 5A

Quality Aspects of Urban Stormwater Runoff,
W77-04733 1010 5B

The WRE Storm Model,
W77-04737 1010 5B

Determination of a Zone of Sanitary Protection of Surface Sources of a Centralized Water Supply, (In Russian),
W77-05203 1011 5G

Plant Upgraded with Rotating Biological Surface System,
W77-05316 1011 5D

New Pre-Treatment Method Without Chemical Reagents for Organic Wastes of Wine Distilleries (Nouveau procede de pre-traitement rejets des d'origine organique destine aux distilleries ou autres sans apport d'adjuvants),
W77-05503 1011 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Method of Purifying the Waste Water of Paper Mills,
W77-05703 1012 5D

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

The Oxygen-Activated Sludge Process -- Theory and Practice,
W77-06119 1013 5D

New System Provides for Growth,
W77-06152 1013 5D

Factors Involved in Biochemical Oxidation of Sewage,
W77-06157 1013 5D

An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

Bio-Treatment of Effluents with BOD Below 100 MG/L,
W77-06223 1013 5D

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Nonpoint Sources and Planning for Water Pollution Control,
W77-06461 1013 5B

Waste Treatment Apparatus,
W77-07005 1014 5D

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

Waste Treatment Process,
W77-07091 1014 5D

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

Determination of BOD After Freezing Water Samples (Bestimmung des BSB nach Einfrierung der Wasserproben),
W77-08546 1017 5A

Travelling Grate-Type Filtration System Uses Pulverized Coal to Lower BOD of Wastewater.
W77-08577 1017 5D

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Enzymatic Treatment of Dairy Effluents,
W77-08937 1018 5D

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

Oxygen-Sag in a Tidal River,
W77-10114 1021 5B

Solving Stream Pollution Control Problems with Digital Computer and Modelling Techniques,
W77-10596 1021 5B

Biology and Biotechnology of Waste Water Treatment (Biologie und Biotechnologie der Abwasseraufbereitung),
W77-10650 1021 5D

Effect of Alum Addition on Aerobic Digestion of Activated Sludge,
W77-10653 1021 5D

Characteristics of Poultry Processing Effluent,
W77-11531 1023 5B

The Purification of Wastewater with the Aid of Rush or Reed Ponds,
W77-11695 1023 5G

Methods for the Evaluation of the Results of the Self-Control-Measurements Carried Out By the Sewage Treatment Plant Operators (Verfahren zur Auswertung der Betriebsergebnisse von Klaerwerken),
W77-11734 1023 5A

Water Quality Management--Research and Development Areas,
W77-11747 1023 5G

Anaerobic and Aerobic Treatment of Combined Potato Processing and Municipal Wastes,
W77-12079 1023 5D

Significance of Temperature in the Activated Sludge Process,
W77-12142 1023 5D

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Metering Total Oxygen Demand,
W77-12416 1024 5A

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

BIOCHEMICAL OXYGEN UPTAKE

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

BIOCHEMICAL REACTOR ANALYSIS

Biochemical Reactor Analysis,
W77-05334 1011 5D

BIOCHEMISTRY

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

Quantitative Nucleic Acid Histochemistry of the Yolk Sac Syncytium of Oviparous Teleosts: Implications for Hypotheses of Yolk Utilization,
W77-05850 1012 5C

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

BIOCHEMISTRY

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Extraction of Iron from Water by Chlorella Vulgaris and Scenedesmus Quadricauda,
W77-11303 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glycera Dibranchiata,
W77-12642 1024 5C

BIOCIDES

The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

BIOCONCENTRATION

Predicting a Bioconcentration Potential of Organic Chemicals in Fish from Partition Coefficients,
W77-01312 1003 5C

Statistical Properties of Environmental Data: Considerations for Bioaccumulation and Toxicity Studies of Pollutants,
W77-01316 1003 5C

Mathematical Models to Describe the Time/Space Distribution of Chemicals in a Water System,
W77-01317 1003 5B

Bioconcentration of 14C-Pesticides by Bluegill Sunfish During Continuous Aqueous Exposure,
W77-01320 1003 5C

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

BIOCONTROL

The Biological Control of Alligatorweed,
W77-00714 1002 5G

Use of Plant Pathogens for Bioregulation of Aquatic Macrophytes,
W77-02514 1005 5G

Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

Mycoleptodiscus Terrestris Leaf Spot on Waterhyacinth,
W77-02543 1005 5G

Making Aquatic Weeds Useful: Some Perspectives for Developing Countries.
W77-07964 1016 4A

Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

Evaluation of the Effectiveness of Dehelmintization of Waste Water During Mechanical Treatment at Smolensk (Otsenka effektivnosti degel' mintizatskii stochnykh vod pri mekhanicheskoi ochistke v Smolenske),
W77-10636 1021 5D

BIODEGRADATION

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Biodegradability of Phenolic Compounds (Biodegradabilita di composti fenolici),
W77-00328 1001 5D

Researches on the Biodegradability and Toxicity of Some Pollutants Existing in Waste Waters Discharged by the Petrochemical Industry, (In Hungarian),
W77-01581 1004 5C

The Biodegradability of Some Organic Pollutants Present in the Waste Waters Resulted from the Petroleum Refineries, (In Hungarian),
W77-01583 1004 5D

Chlorophyll Degradation Product in Sediments of Lake Tega-Numa, (In Japanese),
W77-01604 1004 5C

Degradation of Pesticides by Algae,
W77-01797 1004 5C

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Thermal Effects on Biodegradation of Pollutants in Water,
W77-02218 1005 5B

Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

C(rown) Z(ellerbach)'s Solids Waste Problems at Wauna are Reduced by Composting,
W77-02572 1005 5E

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

Bacterial Degradation of Polychlorinated Biphenyls II. Rate Studies,
W77-02851 1006 5C

Degradation Mechanisms: Controlling the Bioaccumulation of Hazardous Materials,
W77-03391 1007 5B

Biological Converter for Faecal Matter in Water - Using Rotary Tubes With Fibrous Filling Supporting the Bacterial Culture.
W77-03409 1007 5D

Dynamique de Degradation du Phenol Dans le Fleuve Saint-Laurent,
W77-03665 1008 5B

Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

The Conditions for Biodegradation of Petroleum Hydrocarbons at Sea,
W77-04042 1008 5B

Microbial Processes of Phenol Degradation in the Volga and its Reservoirs, (In Russian),
W77-04064 1008 5C

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

Bacterial Degradation of Motor Oil,
W77-04577 1009 5B

Prognosis of Pesticide Stability in Water, Soil and Plants, (In Russian),
W77-04600 1009 5B

Sampling Device for Monitoring Biodegradation of Oil and Other Pollutants in Aquatic Environments,
W77-04801 1010 5B

Microbial Alkylation of Metals,
W77-04859 1010 5C

Biodegradability of Organic Compounds,
W77-05483 1011 5B

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Biological Degradation of Difficult-To-Oxidize Effluent Components (Biologicheskaya destruktsiya trudnookislyaenykh komponentov stochnykh vod),
W77-05716 1012 5D

The Biodegradation of Polyethylene Glycols by Sewage Bacteria,
W77-06211 1013 5D

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

Biogenic Elements and Sulfate Reduction in Water Oil Carbonate Layer, (In Russian),
W77-07040 1014 5B

Role of Mussels Mytilus edulis in Removal of Petroleum Products from Seawater (Under Experimental Conditions),
W77-07116 1015 5C

The Rate of Microbial Degradation of Oil in a Beach Gravel Column,
W77-07138 1015 5B

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

The Effect of Soluble Organic Matter On the Utilization of Phenoxy Herbicides by Pseudomonas sp.,
W77-08504 1017 5C

Rational Design of Aerobic Digestion Systems,
W77-08643 1018 5D

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Biodegradation of Cellulosic Substrates,
W77-09522 1019 5B

Study of the Decomposition of Organic Matter by the Respirometric Dilution Method (Untersuchungen ueber das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verduennungsmethode),
W77-09888 1020 5D

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

Screening Method for Determination of the Degradability of Organic Complexing Agents (Screeningverfahren zur Feststellung der Abbaubarkeit organischer Komplexbildner),
W77-10644 1021 5A

Biology and Biotechnology of Waste Water Treatment (Biologie und Biotechnologie der Abwasseraufbereitung),
W77-10650 1021 5D

Conversion of 1,1,1-Trichloro-2,2-Bis(P-chlorophenyl)Ethane (DDT) to Water-Soluble Products by Microorganisms,
W77-10742 1021 5C

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

Effluent Purification by Biological Rotary Contactor--Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

PCBs Can Be Made Virtually Harmless.
W77-12336 1024 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

BIODEGRADATION DECOMPOSING ORGANIC MATTER

Plankton Photosynthesis and Degradation in the Kapchagai Reservoir in the Third Year of its Existence, (In Russian),
W77-02737 1006 5C

BIODEGRADTION

Degradation of Petroleum by an Alga, Prototheca Zopfii,
W77-07737 1016 5C

BIOECONOMIC MODEL

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

BIOFILM REACTORS

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

BIOFILTERS

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

BIOFLOCCULATION

Bioflocculation in the Activated Sludge Process,
W77-10208 1021 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

BIOGENIC ELEMENTS

Biogenic Elements and Sulfate Reduction in Water Oil Carbonate Layer, (In Russian),
W77-07040 1014 5B

BIOGENIC MEROMIXIS

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

BIOGENIC SOURCES

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

BIOGEOCENOSES

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

BIOGEOCHEMICAL ENVIRONMENT

Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

BIOGRAPHIES

Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

BIOGROWTH PARTITIONS

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

BIOGROWTH PARTITIONS (LAGOONS)

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

BIOHYDRODYNAMIC CHANNEL

Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

BIOINDICATOR

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06252 1013 5C

BIOINDICATORS

Change of the Biochemical Composition of Mussels Under Conditions of Regulated Flow of the Dnieper, (In Russian),
W77-00281 1001 5C

Microorganisms as Indicators of the Environmental Hygiene: Ecology, Taxonomy and Enumeration, (In Dutch),
W77-00348 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

Relationship of Vibrio Parahaemolyticus in Oysters, Water, Sediment, and Bacteriological and Environmental Indices,
W77-00877 1002 5C

Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay,
W77-01061 1002 5C

Mixed Function Monooxygenase of Fish as an Indicator of Pollution of Aquatic Environment by Industrial Effluent,
W77-01065 1002 5C

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Submersed Macrophytes and Their Communities as Indicators of Water Contamination,
W77-01570 1004 5C

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

Tubificids (Oligochaeta: Tubificidae) - Indicators of the Quality of Water Bodies, (In Russian),
W77-02225 1005 5A

Biological Monitoring: Substantiation and Experience in Organization, (In Russian),
W77-02235 1005 5A

Effect of River Pollution on Aquatic Beetles, (In Russian),
W77-02261 1005 5A

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Selection of Strains in Investigations for Hygienic Standardization of the Bacterial Composition of Drinking Water, (In Russian),
W77-02900 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Mussel Test for Biological Control of Water Pollution (Kagylo-teszt vizsennyezesek biologiai hatasanak vizsgalatara),
W77-03454 1007 5A

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

Some Problems of Sanitary Microbiology, (In Russian),
W77-04085 1008 5A

Behavior of Pathogenic and Sanitary-Indicator Bacteria Under Conditions of Water Pollution by Organophosphorus Pesticides, (In Russian),
W77-04099 1008 5C

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

Fecal Coliform and Fecal Streptococcus Density Relationships in Waste Discharges and Receiving Waters,
W77-04711 1010 5B

BOD as Pollutional Parameter,
W77-04715 1010 5A

Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

The Use of Blue-Green Algal Viruses as Indicators of the Efficiency of Water Treatment in Elimination of Human Enteric Viruses,
W77-05107 1011 5F

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

The Measurement of Temperature Tolerance: Verification of an Index,
W77-06764 1014 5C

Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Escherichia Coli as a Sanitary-Indicator Microorganism, (In Russian),
W77-07067 1014 5A

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Quest for an Index of Community Structure Sensitive to Water Pollution,
W77-07136 1015 5A

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Qualitative and Quantitative Studies on the Meiofauna of a Tropical Fresh Water Stream Subject to Tidal Influence, (In Italian),
W77-07390 1015 5C

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Easier Identification with MPN Procedure,
W77-07928 1016 5A

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Possibilities and Role of Biological Analysis in Evaluating the Degree of Pollution of Water Bodies, (In Russian),
W77-08430 1017 5A

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Mussels (Mytilus Sp.) as an Indicator of Lead Pollution,
W77-08693 1018 5C

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

Water System Virus Detection,
W77-09636 1020 5A

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Dehydration of Marine Zoological Material - Volatility of Metabolised Selenium at 105-120C,
W77-10095 1020 5A

Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

Diatom Indicator Groups in the Assessment of Water Quality in the Jukskei-Crocodile River System (Transvaal, Republic of South Africa),
W77-10193 1021 5A

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

The Recovery of Indicator Bacteria on Selective Media,
W77-11111 1022 5A

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

The Enhancement of High-Rate Disinfection by the Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11491 1022 5D

The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

Guidelines for the Quick Evaluation of the Sewage Purification Process with Activated Sludge (Przewodnik dla szybkiej oceny przebiegu oczyszczania sciekow osadem czynnym. Czesc. III. Organizmy rzadziej spotykane),
W77-11726 1023 5D

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

Protozoa as Test Organisms for the Evaluation of the Properties of Effluents (Prosteishie mikroorganizmy kak test-ob''ekty dlya otsenki svoistv stochnykh vod),
W77-12349 1024 5A

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

Plant Indicators of Hydrochemical Conditions of Limans of the Kalmyk Steppe, (In Russian),
W77-12991 1024 2H

BIOLOGIC HALF-LIFE

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

BIOLOGICAL ANALYSIS

Tasks and Principles of Biological Analysis of the Degree of Pollution of Water Bodies, (In Russian),
W77-04598 1009 5A

Application of Biological Analysis in Investigations on Polluted Waters, (In Polish),
W77-05662 1012 5A

BIOLOGICAL COMMUNITIES

Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

Chemical and Biological mobilization of Heavy Metals from Estuarine Sediments,
W77-00839 1002 5C

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

A Study of Habitat Water Regime of Inundated Meadows Near Osijek, (In Croatian),
W77-04582 1009 2G

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Limnological and Planktonic Studies in the Waterton Lakes, Alberta,
W77-06680 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Seasonal Changes of Invertebrate Populations in the Polluted River Medlock,
W77-07121 1015 5C

Survival of Mayfly Larvae Under Mine Acid Conditions,
W77-07128 1015 5C

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

The Structure of Phytoplankton Associations in Lake Tahoe (California-Nevada),
W77-07473 1015 5C

Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

Inventory of Benthic Organisms and Plankton at Mokapu, Oahu,
W77-07798 1016 2L

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Biological Long-Term Investigations of Swedish Lakes,
W77-07998 1016 5C

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

Oxygen Consumption by Freshwater Sediments,
W77-09348 1019 5C

Analysis of the Macrofauna-Community on Stratiotes Vegetations,
W77-09489 1019 5C

Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

The Importance of Monitoring Change,
W77-09591 1019 5A

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Analysis of Data from Biological Surveys of Streams: Diversity and Sample Size,
W77-09778 1020 5A

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

Effects of Acidity on the Phytoplankton and Primary Productivity of Selected Northern Ontario Lakes,
W77-10733 1021 5C

Oil in Southern California Marshes,
W77-11034 1022 5C

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

BIOLOGICAL COMPARISON

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

BIOLOGICAL DAMAGE

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

BIOLOGICAL DISCS

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

BIOLOGICAL EFFECTS
Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

BIOLOGICAL FILTER BEDS
Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 1002 5D

BIOLOGICAL FILTERS
Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Trials on the Operation of Biological Filters,
W77-07954 1016 5D

Treatment of Organic Waste Water by Tower Type Packed Biofilter (Jutento shiki rosho ho ni okeru kaibunshiki shori no joka sokudo),
W77-11715 1023 5D

BIOLOGICAL FLUIDS
Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

BIOLOGICAL INTERFERENCE VALUE
Biodegradability of Organic Compounds,
W77-05483 1011 5B

BIOLOGICAL MEMBRANES
Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

BIOLOGICAL MONITORING
An Industrial View of Biological Monitoring,
W77-07126 1015 5A

BIOLOGICAL MONITORS
The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

BIOLOGICAL OXIDATION
Biodegradability of Organic Compounds,
W77-05483 1011 5B

BIOLOGICAL OXIDATION (SEWAGE)
An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

BIOLOGICAL OXYGEN DEMAND
Study of the Oxygen Demand in Biological Waste Water Treatment and Incineration Processes (Valutazione dell'02 consumato nei processi biologici di trattamento acque nei processai di incenerimento),
W77-06155 1013 5D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

BIOLOGICAL-PHYSICAL GRADIENTS
Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

BIOLOGICAL POST-TREATMENT
Formation of Water Quality by Aquatic Organisms, (In Russian),
W77-01561 1004 5G

BIOLOGICAL PRODUCTIVITY
A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

BIOLOGICAL PROPERTIES
Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Data on Selected Lakes in Washington, Part 5,
W77-03350 1007 7C

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

BIOLOGICAL REACTIONS
Chemical and Biological mobilization of Heavy Metals from Estuarine Sediments,
W77-00839 1002 5C

BIOLOGICAL REACTORS
Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

BIOLOGICAL STRESSORS
Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

BIOLOGICAL TREATMENT
New Acton Grange Works.
W77-00061 1001 5D

Decrease of Bacterial Content in Different Types of Stabilization Ponds,
W77-00080 1001 5D

Biological Purification of the Izmail Board Mill Effluents (Biologicheskaya ochistka stochnykh vod Izmail'skogo Tsellyulozno-Kartonnogo Kombinata),
W77-00322 1001 5D

Denitrification With a Bacterial Disc Unit,
W77-00550 1002 5D

Method of Treating Waste Water,
W77-00566 1002 5D

Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 1002 5D

Method of Wastewater Treatment,
W77-00574 1002 5D

Phosphorus Removal from Waste Water.
W77-00575 1002 5D

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

Don't Waste Waterweeds,
W77-00592 1002 5D

Advanced Treatment and Planned Development Control County's Pollution,
W77-00593 1002 5D

Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

Wastewater Reclamation Project, St. Croix, U.S. Virgin Islands,
W77-00630 1002 5D

Method and Apparatus,
W77-00696 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

Formation of Water Quality by Aquatic Organisms, (In Russian),
W77-01561 1004 5G

Laboratory Research Methodology of Waste Water Treatability by Activated Sludge Process, (In Hungarian),
W77-01582 1004 5D

The Biodegradability of Some Organic Pollutants Present in the Waste Waters Resulted from the Petroleum Refineries, (In Hungarian),
W77-01583 1004 5D

Some Results of the Full-Scale Tests of the Laboratory Researches on the Biological Treatment of Waste Waters from Hog Breeding Farms, (In Hungarian),
W77-01584 1004 5D

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

A Bioassay to Assess Wastewater Toxicity to Aerobic Biological Treatment,
W77-02081 1005 5D

Clarification Plant,
W77-02337 1005 5D

Coleshill Advanced Wastewater Treatment Project,
W77-02344 1005 5D

Advanced Waste Treatment Plant has Physical-Chemical Option,
W77-02345 1005 5D

Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

Packaged Plant for Virgin Islands.
W77-02360 1005 8G

Fluid-Bed Reactor May Cut Sewage Costs.
W77-02367 1005 5D

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

New Biological Clarifier of the Wiesloch Paper Mill of Holfelder-Werke GMBH. Und Co. KG. (Neue biologische Klaeranlage der Papierfabrik Wiesloch der Holfelder-Werke GmbH und Co. KG.),
W77-02566 1005 5D

Environmental Protection in the Pulp and Paper Industry, Possibilities of Realization and Present State of Technology (Umweltschutz in der Zellstoff- und Papierindustrie, Moeglichkeiten der Realisierung und heutiger Stand der Technik),
W77-02568 1005 5D

Fixed Biological Surfaces -- Wastewater Treatment: The Rotating Biological Contractor,
W77-02571 1005 5D

Aerobic and Anaerobic Microbial Treatment Alternatives for Shellfish Processing Wastewaters in Continuous Culture,
W77-02599 1006 5D

Eighth Meeting of the IULTCS Tannery Wastes Commission, Svendborg, Denmark, 21st to 23rd May 1975.
W77-02603 1006 5D

Biological Process for Effluent and Waste Treatment as Applied in the Paper Industry,
W77-02607 1006 5D

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

The Rotating Biological Filter,
W77-03282 1007 5D

Advanced Trickling Filter for Wastewater Treatment,
W77-03365 1007 5D

Biological Purification of Sewage Water-In a Multi-Stage Treatment Tank With Rotating Contactor Surfaces Partly Immersed in the Liquid.
W77-03407 1007 5D

Biological Converter for Faecal Matter in Water - Using Rotary Tubes With Fibrous Filling Supporting the Bacterial Culture.
W77-03409 1007 5D

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

Activated Carbon From Activated Sludge,
W77-03425 1007 5D

Elemental Distribution Diagrams for Biological Wastewater Treatment,
W77-03429 1007 5D

Effluent Variability Estimation for Complete-Mix Activated Sludge Treatment Systems,
W77-03434 1007 5D

Behaviour in Conventional Sewage Purification Processes of Coliform Bacteria with Transferable or Non-Transferable Drug-Resistance,
W77-03435 1007 5D

Large Scale Sewage Treatment Plant with Sludge Incinerator.
W77-03442 1007 5D

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Flow Equalization by Use of Aeration Tank Volume,
W77-03446 1007 5D

Tertiary Treatment of Sewage Effluents,
W77-03453 1007 5D

Comparative Assessment of the Effectiveness of Certain Methods Making Industrial Effluents Noncarcinogenic, (In Russian),
W77-03488 1007 5D

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Sodium Bicarbonate Neutralizes,
W77-03570 1007 5D

Inhibiting Nitrification in Wastewater Treatment Plants,
W77-03573 1007 5D

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

Purification of Residual Liquor from Yeast Production (Ochistka posledrozhzhevoi brazhki),
W77-03811 1008 5D

Biological Effluent Clarification in the Paper Mill Circulation System (Biologische Abwasseraufbereitung im Kreislauf einer Papierfabrik),
W77-03824 1008 5D

Adsorption Biooxidation Treatment of Waste Waters to Remove Contaminants Thereform,
W77-03865 1008 5D

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

Methane From Farm Wastes,
W77-04630 1010 5B

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Biological Treatment of Effluent Containing Activated Sludge-Involves Continuously Introducing Oxygen (Contg. Gas) and Feeding the Outlet Gas to a Burner.
W77-04671 1010 5D

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Stirring Apparatus for Waste Water Purification - By Injection of Gas in Biological Treatment Tank,
W77-04683 1010 5D

Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

Developments at Water Research Centre.
W77-04688 1010 5D

Diffusion Coefficient of Oxygen in Microbial Aggregates,
W77-04689 1010 5D

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

How to Control Biological Waste-Treatment Processes,
W77-04722 1010 5D

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

Wetted Area, Slime Thickness and Liquid Phase Mass Transfer in Packed Bed Biological Film Reactors,
W77-05315 1011 5D

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

An Approach to Effluent Treatment in the Food Industry,
W77-05504 1011 5D

Protein Composition of Activated Sludge from a Kraft Mill Effluent Biological Treatment Plant (Sklad bialka osadu czynnego z biologicznej oczyszczalni sciekow posiarczanowych),
W77-05694 1012 5E

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

Biological Waste Treatment,
W77-05711 1012 5D

Models in Biological Wastewater Treatment: Objectives, Results, Applicability,
W77-05980 1012 5D

Biological Filter Design Optimization,
W77-05981 1012 5D

Apparatus for Biological Treatment of Waste Water,
W77-06107 1013 5D

Wastewater Treatment Unit Features Fluidized Bed.
W77-06117 1013 5D

The Oxygen-Activated Sludge Process -- Theory and Practice,
W77-06119 1013 5D

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

Filtration with Granular Beds,
W77-06123 1013 5D

Study of the Oxygen Demand in Biological Waste Water Treatment and Incineration Processes (Valutazione dell'02 consumato nei processi biologici di trattamento acque nei processai di incenerimento),
W77-06155 1013 5D

Phosphorus Uptake by Biological Slimes,
W77-06163 1013 5D

Effects of Dosing Rates on Trickling Filter Performance,
W77-06167 1013 5D

Computer Controls 55,000 Cu M/Day of Sewage.
W77-06169 1013 5D

Bio-Treatment of Effluents with BOD Below 100 MG/L,
W77-06223 1013 5D

Waste Treatment Apparatus,
W77-07005 1014 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Upgrading Biological Sewage Treatment Plants Today,
W77-07062 1014 5D

Fuel Gas and Electricity from Municipal Sewage,
W77-07065 1014 5D

Biological Phosphate Elimination of Preliminarily Cleaned Communal Waste Water by Use of Iron Bacteria (Biologische Entphosphatung vorgereinigten kommunalen Abwassers unter Mitwirkung von Eisenbakterian),
W77-07856 1016 5D

Composting--An Approach to Using Sewage Waste,
W77-07876 1016 5E

Biochemical and Physical-Chemical Treatment of Weak Municipal Waste Water,
W77-07916 1016 5D

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Trials on the Operation of Biological Filters,
W77-07954 1016 5D

The Role of Protozoa in Biological Purification of Oil Industry Sewage, (In Russian),
W77-08254 1017 5D

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

Purifying Biological Effluent Rich in Carbohydrates or Protein--By Anaerobic Fermentation Separation, Aerobic Treatment and Then Separation.
W77-08277 1017 5D

Taking Acres Out of Pollution-Control Plans,
W77-08283 1017 5D

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Enzymatic Treatment of Primary Municipal Sludge with Trichoderma Viride Cellulase,
W77-08529 1017 5D

Biological Treatment Kinetics of Landfill Leachate,
W77-08532 1017 5D

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

BOC Blows Bubbles in Dirty Bath Water,
W77-08564 1017 5D

The Use of Packed Beds in Water Pollution Control,
W77-08637 1018 5D

Sludge Treatment: Problems and Solutions, Part 1,
W77-08640 1018 5D

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Powdered Activated Carbon Addition to Biological Reactors,
W77-09599 1019 5D

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Water Purifying Systems,
W77-09808 1020 5F

Nitrogen Control: Design Considerations for Supported Growth Systems,
W77-09848 1020 5D

Waste Purification Process.
W77-09865 1020 5D

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

Anglian Opens Its Largest Sewage Treatment Works.
W77-10621 1021 5D

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Krakstad Waste Water Facility: The First to be Equipped with Contact Rolls for Biological Purification (Krakstad renseanlegg forst med kontaktvalser til biologisk rensing),
W77-10629 1021 5D

One Process Step Can Be Skipped: Biological-Chemical Waste Water Treatment Plant Becoming Cheaper (Et prosesstrinn kan sioyfes: biologisk-kjemiske renseanlegg blir billigere),
W77-10631 1021 5D

Rotating Biological Disc System,
W77-10717 1021 5D

Pulp Mill Condensates Cleaned Biologically with the Aid of Bark (Massafabrikernas kondensatvatten renas biologiskt med hjalp av bark).
W77-10719 1021 5D

Some Theoretical and Practical Aspects of Biological Purification of Effluents from Sulfite Pulping (Einige theoretische und praktische Aspekte der biologischen Sulfitzellstoffabwasserreinigung),
W77-10722 1021 5D

Secondary Treatment.
W77-11494 1022 5D

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

Biological Effluent Treatment Plant - With Three Tanks Arranged for Reversible Flow,
W77-11678 1023 5D

Small-Scale Plant for Mechanically/Biologically Purifying Waste Water.
W77-11679 1023 5D

Non-Biodegradable Waste Water Treatment - By Wet Oxidn. Followed by Biological Aeration in Presence of Active Carbon.
W77-11680 1023 5D

Effluent Purification by Biological Rotary Contactor--Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

Biological Control of Water Pollution.
W77-11690 1023 5G

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

The Potential of Submersed Vascular Plants for Reclamation of Wastewater in Temperate Zone Ponds,
W77-11693 1023 5G

Extensions to Great Billing STW Opened.
W77-11707 1023 5D

Treatment of Organic Waste Water by Tower Type Packed Biofilter (Jutento shiki rosho ho ni okeru kaibunshiki shori no joka sokudo),
W77-11715 1023 5D

Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

Effects of Nitrification in the Activated Sludge Process,
W77-11727 1023 5D

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

Biological Evaluation of Best Practicable and Best Available Treatment Control Technology for Petroleum Refinery Wastewaters,
W77-11790 1023 5D

Selection of Parameters for Process Control of Biological Purification of Kraft Mill Effluents (Vybor kanalov upravleniya protsessom biologicheskoi ochistki stochnykh vod sul'fattsellyuloznogo proizvodstva),
W77-12351 1024 5D

Deceptive Horse Barn.
W77-12443 1024 5D

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

Rotating Multitube Biocontactor for Treating Sewage,
W77-12700 1024 5D

Biological Transformation Plant for Refuse and Sludge--With Pre-Mixer for Treatment Chamber,
W77-12918 1024 5D

Sewage Treatment Process,
W77-12925 1024 5D

Sewage Treatment Apparatus,
W77-12935 1024 5D

Method for the Treatment of Wastewater,
W77-12936 1024 5D

Aerobic Sewerage Digestion Process (42 C. Process),
W77-12942 1024 5D

Waste Water Treatment Apparatus by Biological Action,
W77-12943 1024 5D

BIOLOGY
Effects of Sedimentation on Coastal Zone Organisms,
W77-00838 1002 5C

The Significance of Gravel Pits as a Biological Refuge, (In German),
W77-05205 1011 2H

Results of Freshwater Studies in the International Biological Program: Limnological Research in Japan, (In Russian),
W77-12987 1024 2H

BIOMAGNIFICATION
Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

BIOMASS
Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

Crown Structure and Distribution of Biomass in a Lodgepole Pine Stand,
W77-00729 1002 2I

Cladophora in the Great Lakes,
W77-00928 1002 5C

Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

Relationships between Zooplankton Displacement Volume, Wet Weight, Dry Weight, and Carbon,
W77-01790 1004 5A

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

Evaluation of the Phytoplankton Biomass in Lakes of the World, (In Russian),
W77-02816 1006 2H

Problems in the Monitoring of Biomass,
W77-02818 1006 5A

The Biomass and Production of the Macrobenthos of the Middle Course of the Saale River, (In German),
W77-02912 1006 5C

Study of Periphyton Productivity in the Novosibirsk Reservoir, (In Russian),
W77-02915 1006 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

Prediction of the Phytoplankton Development in Designed Reservoirs by Combining a Growth-Model and the Analogy to Existing Reservoirs, (In German),
W77-04584 1009 5C

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Seasonal Abundance, Biomass, Diversity, and Trophic Structure of Fish in a Salt-Marsh Tidal Creek Affected by a Coastal Power Plant,
W77-05581 1011 5C

The Effect of a Thermal Effluent on the Benthos of Thomas Hill Reservoir, Missouri,
W77-05605 1012 5C

Biological Possibilities for Waste Water Purification (Consideratii asupra posibilitatilor biologice de purificare a apelor reziduale),
W77-05685 1012 5G

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

The Optimal Zooplankton Biomass in Fish-Rearing Ponds, (In Russian),
W77-06406 1013 2I

Comparative Characteristics of Zooplankton of Lake Glubokoye for 1972-1973 and in 1951, (In Russian),
W77-06455 1013 2H

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

Dynamics of Phytoplankton Biomass in Two Lakes of Different Limnological Character,
W77-06685 1014 5C

The Share of Algae with Different Dimensions in the Plankton of Two Lakes of Different Trophic Character in the Annual Cycle,
W77-06692 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

Adenosine Triphosphate (ATP) Levels in Microbial Cultures and a Review of the ATP Biomass Estimation Technique,
W77-06942 1014 5A

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Planktonic Infusoria in Two Lakes of the Gorki Oblast, (In Russian),
W77-07234 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

Primary Production and Biomass of Algae Populations in an Oligotrophic Lake in the French Massif Central, (In French),
W77-07398 1015 5C

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

The Role of Phosphate in Eutrophication. Stimulation of Plankton Growth and Residence Times of Inorganic Phosphate in Lake Kinneret Water,
W77-07517 1015 5C

Satellite Observations of Water Quality,
W77-07554 1015 5A

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

Microbial ATP Studies,
W77-07978 1016 5C

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

Zooplankton Development in Intensively Exploited Fishery Ponds, (In Russian),
W77-08945 1018 2I

Relation Between the Kinetics of Nitrogen Transformation and Biomass Distribution in a Soil Column During Continuous Leaching,
W77-09973 1020 2G

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Activity of Hydrolytic Enzymes in Water and Biomass of Planktonic Organisms in a Reservoir of an Eutrophic Type in the Lagoon of Kursiu Marios, (In Russian),
W77-11509 1023 5C

The Biomass, Organic Matter Contents and Calorific Values of Macrophytes in the Lakes of the Szeszupa Drainage Area,
W77-11511 1023 5C

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

The Law of Probability Distribution for the Zooplankton Biomass in Lake Baikal, (In Russian),
W77-12984 1024 2H

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

Results of Freshwater Studies in the International Biological Program: Limnological Research in Japan, (In Russian),
W77-12987 1024 2H

Bottom Microflora and Benthos of Lake Dal'Neye (Kamchatka), (In Russian),
W77-12988 1024 5C

The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

Experimental Modeling and Mathematical Description of Radionuclide Metabolism in the System 'Aqueous Medium-Hydrobionts', (In Russian),
W77-12993 1024 5B

BIOMASS PRODUCTION

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

BIOMPHALARIA GLABRATA

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

BIOOXIDATION
Adsorption Biooxidation Treatment of Waste Waters to Remove Contaminants Thereform,
W77-03865 1008 5D

BIORHYTHMS
Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

BIOSESTON
Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

BIOSTIMULATION
Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

BIOSYNTHESIS
Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

BIOTA
Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Distribution and Bioaccumulation of Mercury in Biotic and Abiotic Compartments of a Contaminated River-Reservoir System,
W77-01297 1003 5C

Survey of Mgobezeleni Lake-System in Zululand, with a Note on the Effect of a Bridge on the Mangrove Swamp,
W77-01380 1003 2H

The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges.
W77-01806 1004 5A

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

Investigation of Radioactive Waste Disposal at Deepwater Dumpsite 106--Sampling Program May 1974,
W77-09246 1019 5B

Experimental Studies on Plutonium Kinetics in Marine Biota,
W77-10396 1021 5B

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

BIOTIC CHARACTERISTICS
Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

BIOTIC CYCLE
Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

BIOTIC ENVIRONMENT
The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

BIOTIC INDEX
Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

BIOTIC PHOSPHORUS EXCRETION
Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

BIOTRANSFORMATION
Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

BIPHENYLS
Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

BIRCH LAKE (WIS)
Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

BIRD BREEDING
Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

BIRD EGGS
Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

BIRDS
Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Litter and Oil on the Shores of Utsira, Rogaland County, During Autumn 1974, (In Danish),
W77-03125 1007 5B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

A Summary of Observations of Birds at Oliktok Point and Notes on Birds Observed Along the Colville River--Summer 1971,
W77-10903 1022 2L

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

BIRMINGHAM (GT. BRIT)
Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

BIS (TRI-N-BUTYLTIN)
Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

BISCAYNE AQUIFER (FLA)
Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

BISCAYNE BAY
Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

BISCAYNE BAY (FLA)
Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Biscayne Bay Symposium II,
W77-08961 1018 5G

BITS
Effects of Drilling Mud on Rock Bit Performance,
W77-12672 1024 8G

BITTER PANICUM
Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

BITTERROOT VALLEY (MONT)
Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

BITUMINOIDS
Bituminoid Formation in the Mud Sediments of Domestic Sewage, (In Russian),
W77-08618 1018 5A

BIVALVE MOLLUSCS
Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

BIVALVES
An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

BIVALVES (MARINE)
Study of Bacteria Associated with the Rearing of Larvae of Marine Bivalves, (In French),
W77-07599 1015 5C

BLACK ABALONE
Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

BLACK BAYOU (TX)
Flood Plain Information: Atlanta, Texas: Black Bayou and Tributaries.
W77-11840 1023 4A

BLACK BODY EFFECT
Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

BLACK BOX PARAMETER ESTIMATION
A Stable Estimator for Linear Models 1. Theoretical Development and Monte Carlo Experiments,
W77-00123 1001 4A

BLACK BULLHEAD
Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

BLACK CRAPPIE
Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

BLACK CREEK (IND)
Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

BLACK HILLS
Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

BLACK KETTLE CREEK (KA)
Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

BLACK LIQUOR
Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

BLACK PRICKLEBACK
Seasonal Shifts in the Spawning Site of a Northeast Pacific Intertidal Fish,
W77-01063 1002 2L

BLACK RIVER BASIN (NY)
Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

BLACK RIVER ESTUARY (OHIO)
Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

BLACK RIVER (NY)
Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

BLACK RIVER WATERSHED (ARIZ)
Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

BLACK SEA
Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Application of a Three-Dimensional Model to Computations of Storm Surges in the Black Sea,
W77-04260 1009 2B

Year-Class Abundance of Pelagophilic Summer-Spawning Fishes of the Black Sea and Factors Determining It, (In Russian),
W77-04579 1009 2L

Self-Purification in the Coastal Waters of the Black Sea, (In Russian),
W77-07592 1015 5C

The Problem of the Sanitary Protection of the Waters of Ports and Coastal Zones of the Black Sea Basin, (In Russian),
W77-08014 1016 5G

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Human Induced Stress on the Caucasian Coast of the Black Sea,
W77-11040 1022 4D

Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

BLACK SPRUCE
Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

BLACK WALNUT SHELLS
Method of Filtering Oil from Liquids,
W77-08011 1016 5G

BLACK WARRIOR RIVER (ALA)
Degradation of Pesticides by Algae,
W77-01797 1004 5C

BLACK WILLOW
Radioactivity in Mississippi River Water,
W77-11641 1023 5A

BLACKFLY LARVICIDE
Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

BLACKNOSE DACE
Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

BLACKSMITH FORK (UTAH)
Blacksmith Fork and Spring Creek Flood Plain Information, Millville, Utah.
W77-11843 1023 4A

BLACKSTONE RIVER BASIN (MASS-RI)
Numerical Estuarine Models for Water Quality Management in the Blackstone River-Providence River and the Taunton River-Mt. Hope Bay Complexes,
W77-00152 1001 5B

BLAKE ESCARPMENT
Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

BLEACHED KRAFT MILL EFFLUENT
Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

BLEACHED KRAFT PULPMILL EFFLUENT
Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

BLEACHING WASTES
Bleachability of Softwood and Hardwood Kraft Pulps in Ozone Bleaching (In Japanese),
W77-00330 1001 5D

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

Process for Treating Waste Water (Verfahren zur Behandlung von Abwasser),
W77-00343 1001 5D

Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

An Overview of New Pulp Bleaching Developments,
W77-01665 1004 5D

Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W77-01669 1004 5B

Uddeholm (Forest Industries) -- Kamyr Closed Bleached Plant (at Skoghall, Sweden),
W77-01671 1004 5D

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

1975 Review of the Literature on Pulp and Paper Effluent Management,
W77-01678 1004 5D

Chlorides in the Kraft Recovery System. I. Chlorides in the Recovery Boiler, and a Mechanism for Chloride Removal,
W77-02559 1005 5D

Chlorides in the Kraft Recovery System. II. Process and Equipment Aspects on a Closed Bleached Kraft Mill,
W77-02560 1005 5D

Effluent-Free Bleached Kraft Pulp Mill. VIII. Bleach Plant Renovation and Design,
W77-02562 1005 5D

Investigations of Effluent Characteristics from Conventional and Oxygen Bleaching Sequences: Results of Laboratory Studies,
W77-02563 1005 5D

Some Internal Measures for Reducing Effluent Load, for Example, in a Calcium Bisulfite Mill (Einige innerbetriebliche Massnahmen zur Verminderung der Vorfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02576 1006 5D

Some Internal Measures for the Reduction of the Effluent Load Shown by the Example of a Calcium-Bisulphite Pulpmill (Einigeinnerbetriebliche Massnahmen zur Verminderung der Verfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02609 1006 5D

Potentials of Using Spent Oxygen Bleaching Liquor in the Sulphite Process,
W77-03615 1008 5D

Chlorine-Based Bleachery Effluent Treatment,
W77-03806 1008 5D

Gas Chromatography-Mass Spectrometry of Chlorophenols in Spent Bleach Liquors,
W77-04806 1010 5A

Lime Treatment of Sulfite Pulp Mill Bleachery Effluent (Cisteni odpadnich vod z beleni sulfitove buniciny vapnem),
W77-05693 1012 5D

New In-Plant Technology to Reduce Pollution from a Sodium Base Sulphite Mill,
W77-05699 1012 5D

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

Purification of Waste Water from Sulfate Pulp Bleaching Plants,
W77-05704 1012 5D

Bleach Modifications to Reduce Pollutants,
W77-06225 1013 5G

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Characterization of Spent Bleaching Liquors. Part 1, Spent Liquors from the Chlorine and Alkali Extraction Stages in the Prebleaching of Pine Kraft Pulp,
W77-09731 1020 5A

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Organic Compounds in Red Pine Kraft Bleaching Spent Liquor (In Japanese),
W77-10699 1021 5A

On the Properties of Waste Water Produced in Ozone Bleaching of Kraft Pulp (In Japanese),
W77-10700 1021 5A

Rotating Biological Disc System,
W77-10717 1021 5D

Characterization of Spent Bleaching Liquors. Part 2. Different Sequences from Prebleaching of Pine and Birch Kraft Pulp,
W77-10723 1021 5A

BLICCA BJOERKNA
Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus (L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

BLINDED FISH
Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

BLOOD ACIDOSIS
Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

BLOOD CHEMISTRY
Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

BLOOD LACTATE
Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

BLOOD LEAD CONCENTRATION
Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

BLOOD SAMPLES
Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

BLOOD SUGAR BIOASSAY
Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

BLOOD SUGAR LEVELS
Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

BLOODWORMS
The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glycera Dibranchiata,
W77-12642 1024 5C

BLOOM DELAY
The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

BLOWOUTS
Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

BLUE CRAB
Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

BLUE MUSSEL
Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

BLUEBACK HERRING
Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

BLUEBERRIES
An Epidemiological Study of Mummy Berry Disease of Highbush Blueberry,
W77-11928 1023 3F

BLUEGILL SUNFISH
The Effects of High Vacuum on Fish,
W77-07421 1015 5C

BLUEGILLS
Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

BLUFF EROSION
The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

BLUFFS
The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

BOARD MILLS
Whitewater System Closure in NSSC Corrugating Medium Manfacture,
W77-01673 1004 5D

Manufacture of Boxboard in a Closed Water Cycle (Proizvodstvo korobochnogo kartona pri zamknutom vodooborote),
W77-03791 1008 3E

BOATING
Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

Shoreline Management and Boating - Can the Industry Survive. (Report on the Fourth Marine Recreation Conference).
W77-06544 1013 6E

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

BOATING REGULATIONS
Amend the Federal Boat Safety Act of 1971 (Hearings on S. 3214 to Declare Certain Waters of New Hampshire to Be Non-navigable for Certain Purposes).
W77-07255 1015 6E

BOATS
Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

Analysis of Pollution from Marine Engines and Effects on the Environment. Summary Report.
W77-02449 1005 5C

Storage of Wastes from Watercraft and Disposal at Shore Facilities,
W77-06201 1013 5D

BOD-DO MODEL
A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

BOD REMOVAL
BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

BODIES OF WATER
Model for a Study,
W77-00971 1002 2L

Deleterious Substances in Streams.
W77-03721 1008 6E

BODY TEMPERATURE (FISH)
Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

BOECKOSIMUS (ONISIMUS) AFFINIS
Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

BOG-UPLAND CATCHMENTS
The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

BOGS
Stratigraphy and History of Development of the Voitovtsovsk Bog in the Vinnitsa Oblast, (In Ukrainian),
W77-02922 1006 2H

The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

Observations on a Peat Bog's Ability to Withstand Increasing Public Pressure,
W77-07139 1015 5C

Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

Hydrothermal State of Peat-Boggy Soils in the Extreme North, (In Russian),
W77-12890 1024 2G

BOGUE SOUND (NORTH CAROLINA)
The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

BOILER FEED WATER
Water Treatment for Boiler Operating Pressures Above 1200 PSIG,
W77-03805 1008 3E

BOILER FUEL OIL
Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

BOILERS
Internal Treatments for Boilers Operating Above 1200 PSI,
W77-03803 1008 8G

BOIS BRULE RIVER (WISC)
Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

BOMBAY HARBOUR (INDIA)
Behavior of Discharged Radionuclides from Fuel Reprocessing Operations in the Aquatic Environment of Bombay Harbour Bay,
W77-10403 1021 5C

BOND ISSUES
Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

BONDING
Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

Compounds of Zinc and Copper in Sewage Sludge Determined by Electron Spectroscopy,
W77-11482 1022 5A

BONNEVILLE DAM
Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

BONNEVILLE RESERVOIR
Spatially Averaged Flow Over a Wavy Surface,
W77-10103 1021 2E

BONNEVILLE SPILL CONDITIONS
Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

BOOK TROUT *SALMON
Effects of Reduced Oxygen on Embryos and Larvae of the White Sucker, Coho Salmon, Brook Trout, and Walleye,
W77-04547 1009 5C

BOOMER LAKE (OKLA)
Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

BOOMS
Boom Companies; Construction, Powers Of,
W77-08157 1017 6E

BORATE
Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

BORDER IRRIGATION
Simulating Overland Flow in Border Irrigation,
W77-10170 1021 3F

Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

BOREHOLE CAMERAS
The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

Multi-Shot Camera System for Borehole Surveying.
W77-08668 1018 8G

BOREHOLE GEOPHYSICS
Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-01366 1003 4B

The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

Well Logging Manual.
W77-04115 1009 8G

Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

BOREHOLE TELEVISION CAMERAS
A Light in the Water.
W77-04282 1009 8G

BOREHOLES
Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

Pinpointing Boreholes Electrically.
W77-01448 1003 2F

Artic Casing Pack,
W77-04286 1009 8G

Polyurethane Foam--A Useful New Borehole Grout,
W77-05150 1011 2G

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

BORER FAUNA
The Mining Fauna in Four Macrophyte Species in Mikolajskie Lake,
W77-06688 1014 5C

BORES
Pulsing Flow in Steep Alluvial Streams,
W77-11206 1022 8B

BORIC ACID
The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

BORNHOLM (DENMARK)
Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

BORON
The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

Effect of Lime on Boron Transport to and Uptake by Cotton,
W77-02282 1005 3F

Toxicity, Uptake and Survey Studies of Boron in the Marine Environment,
W77-02565 1005 5C

Experimental and Field Studies in Hygienic Assessment of Drinking Water Containing Boron, (In Russian),
W77-04033 1008 5G

Boron in Coastal North Florida Rainfall,
W77-05152 1011 2K

Data for Substantiating the Permissible Level of Boron Content in Drinking Water, (In Russian),
W77-05898 1012 5C

Effects of Boron and Nitrogen on Grain Yield and Boron and Nitrogen Concentrations of Barley and Wheat,
W77-09655 1020 3F

Influence of Soil pH on the Availability of Added Boron,
W77-10274 1021 2G

A Hygienic Evaluation of Boron in Potable Waters, (In Russian),
W77-10582 1021 5C

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

BOSMINA-COREGONI
Nutrition of Bosmina Coregoni Baird (Cladocera), (In Russian),
W77-12931 1024 2I

BOSMINA LONGIROSTRIS
The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

BOSQUE DEL APACHE WILDLIFE REFUGE (NM)
Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

BOSTON (MA)
Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Scientific and Technical Evaluation of the Environmental Protection Agency's Wastewater Facilities Planning, Boston Case Study, Phase I: Water Quality Considerations,
W77-12472 1024 5G

BOTANY BAY (NSW)
Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

BOTTOM BOUNDARY LAYER
The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

BOTTOM DEPOSITS
Volatile Fatty Acids in Bottom Deposits of the Rybinsk Reservoir, (In Russian),
W77-00126 1001 5C

Studies on the Bottom Fauna of Five Lakes in Southern Hokkaido (Lakes Hikotsu-Ko, Kuttara-Ko, Toya-Ko, Hangetsu-Ko and Oshima O-Numa, (In Japanese),
W77-01037 1002 5C

BOTTOM FISH
DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

BOTTOM MIXING LAYERS
The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

BOTTOM PRESSURE
Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

BOTTOM SAMPLING
Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

The Effects of Dredging on Water Quality in the Northwest,
W77-06535 1013 5G

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Electrically Powered Sampler for Benthic Macroinvertebrates,
W77-06757 1014 7B

Surber Sampling in Deep Water for Bottom Organisms,
W77-07199 1015 7B

A Quantitative Sampler for Submerged Aquatic Macrophytes,
W77-10226 1021 7B

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

BOTTOM SEDIMENTS

Behavior of Mercury in Suspended Solids and Bottom Sediments,
W77-00007 1001 5C

Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

Significance of Suspended Load and Bottom Deposits in Self-Purification of the Selenga River from Petroleum Products, (In Russian),
W77-01606 1004 5G

The Effect of Bottom Sediments on Formation of Surface Water Composition, (In Russian),
W77-02259 1005 5B

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-02808 1006 5C

Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Trace Element Content in the Bottom Sediments and Water of the Rivers Przemsza and Vistula in the Section of its Most Intense Pollution, (In Polish),
W77-04079 1008 5A

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

A Systems Analysis Model for Calculating Radionuclide Transport Between Receiving Waters and Bottom Sediments,
W77-04516 1009 5B

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

PCB Investigations of the Mississippi River and its Tributaries Water, Bottom Sediment and Point Sources,
W77-06368 1013 5C

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Distribution Thickness and Certain Physical and Chemical Properties of Bottom Sediments in the Kiev Reservoir, (In Russian),
W77-07321 1015 2J

Composition and Dynamics of the Bottom Animals in the Littoral Zone of Dojran Lake, Macedonia,
W77-07457 1015 5C

Effect of Organic Acids on Experimental Manganese Isolation from Bottom Sediments, (In Russian),
W77-07597 1015 5B

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

Bituminoid Formation in the Mud Sediments of Domestic Sewage, (In Russian),
W77-08618 1018 5A

Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

The Role of Humic Acids in the Uptake and Release of Mercury by Freshwater Sediments,
W77-09615 1020 5B

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

Aspects of Size Distributions, Mineralogy and Geochemistry of Deltaic and Adjacent Shallow Marine Sediments, North Arctic Alaska,
W77-10897 1022 2L

Utilization of Sedimentary Ammonia by Potamogeton Nodosus and Scirpus,
W77-11479 1022 5C

A Yearly Cycle of Changes in Dynamics of Production of the Chemoautotrophic Bacteria in Bottom Sediments of a Water Body,
W77-11505 1023 5C

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Callahan Reservoir: III. Bottom Sediment-Water-Phosphorus Relationships,
W77-12150 1023 5G

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

BOTULISM

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

BOUGHTON MODEL

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

BOUGUER ANOMALY

Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

BOULDER CANYON PROJECT

Reclamation Law in Litigation: Acreage and Residency Limitations on Private Lands,
W77-12889 1024 6E

BOULDER (COLO)

A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
W77-05369 1011 5B

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

BOUND WATER

Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

BOUNDARIES

BOUNDARIES
Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

BOUNDARIES (ARID LANDS)
Boundaries of Arid Regions, (In Russian),
W77-01032 1002 7C

BOUNDARIES (PROPERTY)
State V Ashmore (Fixing Boundaries Adjacent to Tidewaters).
W77-00993 1002 6E

Shoreland Boundaries.
W77-01004 1002 6E

Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Tidal Boundaries in Florida,
W77-01093 1003 6E

Public Lands (Preference Rights Established for Acquisition of Tidelands and Submerged Lands).
W77-01106 1003 6E

Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

Acquisition of Property (Islands).
W77-03723 1008 6E

Valder V Wallis (Establishing Title to Accreted Portion of Interstate Island),
W77-04932 1010 6E

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

Pearson V. City of Guttenberg (City's Procrastination in Developing Riverside Tract Give Private Adjacent Owner Title).
W77-06067 1012 6E

Subsidence: Settling Down Within the Laws of Accretion, Reliction, Erosion, and Submergence,
W77-07238 1015 6E

Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

Restless River: International Law and the Behavior of the Rio Grande,
W77-08384 1017 6E

Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

State of Florida V Florida National Properties, Inc. (Riparian Boundaries in Meandered, Fresh-Water Lakes).
W77-09577 1019 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

De Simone V Kramer (Artificially Created Accretion Subject to Law Concerning Natural Accretion).
W77-10487 1021 6E

Hodgen v Kliewer (Boundary Changes Proper for Accretion but not Avulsion).
W77-11187 1022 6E

Title to Foreshore--Georgia Tidelands Act of 1902 Grants Right to Cultivate and Harvest Shellfish in Foreshore Area, Fee Simple Reserved in the State (Comment on State V Ashmore).
W77-11463 1022 6E

Alabama Public Meeting Series on Coastal Zone Boundaries, November - December, 1975. Interpretations,
W77-11900 1023 6E

BOUNDARIES (SURFACES)
Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Numerical Solution for Flow Under Sluice Gates,
W77-05012 1018 8B

Shape of a Streamline Water Table Near Inflow and Outflow Boundaries,
W77-09023 1018 2F

Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
W77-09071 1018 4C

BOUNDARY CONDITIONS
Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

BOUNDARY DISPUTES
The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

De Simone V Kramer (Artificially Created Accretion Subject to Law Concerning Natural Accretion).
W77-10487 1021 6E

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

Second Report of the Special Master in the Case of Utah v United States (Concerning Boundaries of Inland Bodies of Water and the Nature of Meander Lines).
W77-12895 1024 6E

BOUNDARY LAYER
Free Surface Flow in a Channel of Large Relative Roughness,
W77-00649 1002 2E

BOUNDARY LAYER THEORY
The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

BOUNDARY LAYERS
Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

Measurements of the Turbulent Boundary Layer Under Pack Ice,
W77-02138 1005 2C

The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

Nearshore Currents Off Long Island,
W77-03754 1008 2L

The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

Second Approximation to Gravity Wave Attenuation,
W77-05366 1011 8B

Free Flow Immediately Below Sluice Gates,
W77-07161 1015 8B

Flow Regimes in Debris Flow,
W77-09045 1018 2J

The Sea Surface Temperature Deviation at Very Low Speeds; Is There a Limit,
W77-10120 1021 2L

BOUNDARY PROCESSES
Osmosis Process for Producing Energy,
W77-01751 1004 3A

The Coastal Interface: Who Owns What,
W77-04362 1009 6E

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

Application of a 'Radiation-Type' Boundary Condition to the Wave-Porous Problem,
W77-12911 1024 2L

BOUNDARY (PROPERTY)
Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

BOUNDARY WATERS (CANADA-US)
The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

BOUSSINESQ EQUATION
Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Numerical Solution of Boussinesq Equation,
W77-02143 1005 2F

BOWEN RATIO
Evaporation and Advection I: Evaporation from Extensive Homogeneous Surfaces,
W77-03859 1008 2D

BOWERBANKIA GRACILIS
Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

BOX-JENKINS MODELING
Advances in Box-Jenkins Modeling, 1. Model Cconstruction,
W77-11214 1022 2A

Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

BOYLE'S LAW
A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

BOYNE RIVER (CANADA)
Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

BP 1100X
Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

BRACHYSYNODONTIS-BATENSODA
Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

BRACKISH WATER
Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

Characteristics of the Pelagic Environment of the Brackish-Water Lagoons of Bages-Sigean and Salses-Leucate During the Summer of 1974, (In French),
W77-05304 1011 5C

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Yeasts from Brackish Waters in Lorraine, (In French),
W77-06269 1013 5B

The Influence of Brackish-Water Intrusion on Macroinvertebrate Associations of the Lower Tchefuncte River, Louisiana,
W77-08292 1017 5B

Water Resources and Water Utilization in Israel,
W77-09011 1018 6E

Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

The Influence of Salinity on the Growth of Some Plankton Diatoms from Brackish Water,
W77-10146 1021 5C

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Brackish Groundwater Bodies as a Result of Geological History and Hydrological Conditions,
W77-11057 1022 2F

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Physiological Basis for the Reduction of Plant Growth Under Conditions of Irrigation with Brackish Water and Possible Methods of Amelioration,
W77-11063 1022 3C

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

Use of Geothermal Brackish Water for Soil Warming and Vegetable Irrigation,
W77-11066 1022 3C

Effects of Brackish Water Irrigation on Yield and Development of Cotton,
W77-11067 1022 3C

Irrigation with Brackish Water: Chemical and Hydraulic Changes in Soils Irrigated with Brackish Water Under Cotton Rotation,
W77-11071 1022 3C

Applicability of Commercial Reverse Osmosis Units for the Quality Improvement of Brackish Water Sources in the Southern Arava,
W77-11073 1022 3A

The Role of Membrane Methods in the Desalination of Brackish Water,
W77-11076 1022 3A

Industrial Use of Brackish and Saline Water in the Haifa Bay Area,
W77-11077 1022 3C

BRAHMAPUTRA VALLEY (INDIA)
Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

BRAIDING
Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

BRAIDING CHANNELS
Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

BRAIN DEVELOPMENT (FISH)
Brain Growth of Young Herring and Trout,
W77-04546 1009 2I

BRAIN ENERGY METABOLISM
Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

BRAKING WAVES
Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

BRANCH AND BOUND ALGORITHM
Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

BRANCHED SEWER SYSTEMS
Optimal Design of Multilevel Branching Sewer Systems,
W77-05192 1011 5D

BRANCHING CONDUITS
Final Report of the Task Committee on Branching Conduits,
W77-11590 1023 8B

Some Basic Concepts on Flow in Branching Conduits,
W77-11591 1023 8B

BRANDYWINE RIVER (DEL)
The Use of Blue-Green Algal Viruses as Indicators of the Efficiency of Water Treatment in Elimination of Human Enteric Viruses,
W77-05107 1011 5F

BRAZIL
Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

Morphological Studies of Two Pristigasterinae Larvae From Southern Brazil,
W77-04531 1009 2I

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

Proposed Hydrologic Analyses of Streamflow for Brazil,
W77-06343 1013 2E

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

BRAZIL (CAMPINA AMAZONICA)
Movement of Subterranean Waters in the Ecosystem of the Amazonian Campina, (In Portugese),
W77-04773 1010 2F

BRAZIL (MINAS GERAIS)
Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

BRAZIL (NORTHEAST REGION)
Dynamics of Climatic Hazards in Northeast Brazil,
W77-07167 1015 2B

BRAZILIAN SOILS
Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

BRAZOS-LITTLE RIVER SYSTEM (TEXAS)
Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

BRAZOS RIVER DELTA (TEX)
Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

BREAKERS
Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

BREAKING WAVES
Breaking Waves,
W77-10317 1021 8B

BREAKWATERS
Design Limits on Critical Float Emergence in a Tethered Float Breakwater,
W77-00899 1002 8C

Breakwater Construction,
W77-01221 1003 8B

Floating Breakwaters,
W77-01222 1003 8B

Breakwater System for Creating Artificial Sandbars,
W77-01231 1003 8B

Partial Wave Damping in Pneumatic Breakwaters,
W77-02455 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 1. Waves,
W77-02474 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 2. Mean Currents,
W77-02475 1005 8B

Stability of Rubble-Mound Breakwater Lahaina Harbor, Hawaii; Hydraulic Model Investigation,
W77-02940 1006 8B

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Effects of a Breakwater on Nearshore Currents Due to Breaking Waves,
W77-03297 1007 8B

Two-Dimensional Air-Bubble Plume,
W77-05446 1011 8B

Wave Energy Power Generating Breakwater,
W77-06449 1013 8B

Floating Breakwater,
W77-08009 1016 8A

Performance Analysis of a Tethered Float Breakwater,
W77-09328 1019 8B

Stability of Rubble-Mound Breakwater Jubail Harbor, Saudi Arabia; Hydraulic Model Investigation,
W77-09984 1020 8B

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

Breakwater System,
W77-11009 1022 8B

BREAM
Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

Effect of Parasites on the Condition and Growth of Young Fish of the Kremenchug Reservoir, (In Russian),
W77-09278 1019 2I

BREAM GROWTH
Effect of Konakova State Regional Electric Power Station Heated Water Discharge on the Bream Growth in the Ivankov Reservoir, (In Russian),
W77-04589 1009 5C

BREAM PARASITES
Comparative Characteristics of the Parasite Fauna of Bream in Lakes Dusios, Obelijos, Salvantu and Galstas, Which Have Different Thermal Regimes, (In Russian),
W77-07312 1015 2H

BREEDING
Bloodsucking Mosquitoes (Diptera, Culicidae) of the White Sea Coast: III. Breeding Places of Mosquitoes of the Genus Aedes, (In Russian),
W77-02699 1006 5G

BREEDING REACTORS
Environmental Impacts of High Level Radioactive Waste Disposal,
W77-09473 1019 5C

BREWERY CANNING WASTES
Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

BREWERY WASTES
Energy Recovery in Brewery Industry,
W77-10342 1021 5D

BRIANZA LAKES (ITALY)
Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

BRIDGE DESIGN
Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

BRIDGE FAILURE
A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

BRIDGER RANGE (MONT)
Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

BRIDGES
Obstructing Bridges or Streams.
W77-00989 1002 6E

Louisiana Environmental Society V Brinegar (Environmental Impact Statement as to Artificial Lake to be Bridged by Highway Construction).
W77-01045 1002 6E

Scour Around Bridge Piers,
W77-03294 1007 8B

Movement Joint for Concrete Sewer Bridge.
W77-07885 1016 8F

BRIDGING MATERIALS
Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

BRINE DISPOSAL
Soft Water Can Mean Hard Disposal Problems,
W77-00589 1002 5E

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

BRINE REUSE
Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

BRINE SHRIMP
Acclimation and Tolerance of Artemia Salina to Copper Salts,
W77-04044 1008 5C

Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

BRINE SHRIMP EGGS
Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

BRINES
Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

Evaluation of the Use of Salt Brine for Deicing Purposes,
W77-01639 1004 4C

Brine Desalination Process with Phase-Breaking by Cold Hydrocarbon Injection,
W77-04951 1010 3A

Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

The Production of Water from Geothermal Reservoirs: Some Economic Considerations,
W77-12682 1024 3A

BRISBANE (QLD.)
Case Study of Effect of Increased Urbanisation on Flood Damage for Moggill Creek, Brisbane (Australia),
W77-00945 1002 4C

BRISBANE RIVER (QLD.)
Flood Envelopes and Frequencies for the Brisbane River (Australia),
W77-00942 1002 4A

A Stage-Damage Curve for the Brisbane River (Australia),
W77-00943 1002 4A

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

BRISTOL BAY
Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

BRISTOL BAY (AK)
Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

BRISTOL BAY (ALAS)
Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

BRISTOL BAY BASIN (ALAS)
Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

BRISTOL CHANNEL
The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

BRISTOL CHANNEL (WALES)
The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

BRITISH CATCHMENTS
The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

BRITISH COLUMBIA
Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Tidal Currents and Estuarine-Type Circulation in Johnstone Strait, British Columbia,
W77-03846 1008 2L

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

Streamflow Regionalization in British Columbia, No. 2, Regression of Mean Annual Flows on Physiographic Parameters,
W77-07434 1015 2E

Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

U.B.C. Watershed Model,
W77-10969 1022 2A

BROADLEAF EVERGREEN FORESTS
The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

BROMIDES
The Use of A Specific Ion Electrode for Determination of Bromide in Soils,
W77-02100 1005 2G

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

BROMINATED HYDROCARBONS
Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

BROMINE
Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Direct of X-Ray Spectrometric Determination of Bromine in Water,
W77-02457 1005 5A

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants: Volume I - Grandville, Michigan,
W77-11762 1023 5D

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

BROMINE CHLORIDE
Bromine Chloride: An Alternative Disinfectant to Chlorine,
W77-12634 1024 5F

BROMINE HYDROLYSIS
Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

BROOK TROUT
Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate

on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Long-Term Effects of Methylmercuric Chloride on Three Generations of Brook Trout: Toxicity Accumulation, Distribution and Elimination,
W77-04031 1008 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

BROOKLYN (NY)

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

BROWARD COUNTY (FLA)

Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

BROWN SHRIMP

Gas-Bubble Disease Due to Oxygen Supersaturation in Raceway-Reared California Brown Shrimp,
W77-04403 1009 5C

BROWN TROUT

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

Aquatic Organisms Response to Severe Stress Following Acutely Sublethal Toxicant Exposure,
W77-04024 1008 5C

Water Ozonation in Fish Culture, (In German),
W77-04591 1009 5F

Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Does Low Environmental pH Influence Hepatic Growth in Fish,
W77-12203 1023 5C

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

BRUSH CONTROL

Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

Effect of High Intensity Storms on Soil Slippage on Mountainous Watersheds in Southern California,
W77-05119 1011 4D

Effects of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona, With a Section Statistical Analysis,
W77-10868 1022 5A

BRUSH FIRES

Deposition of Mineral Nitrogen by Rain in the Lamto Savanna, (In French),
W77-07574 1015 5B

BUBBLE FORMATION

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

BUBBLER DE-AERATION SYSTEMS

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

BUBBLER IRRIGATION

Low-Cost 'Bubbler' Irrigation System Developed.
W77-12517 1024 3F

Low-Cost 'Bubbler' Developed.
W77-12519 1024 3F

BUBBLES

Oxygen for Effluent Treatment.
W77-00060 1001 5D

Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolyti-

cally Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Two-Dimensional Air-Bubble Plume,
W77-05446 1011 8B

In Situ Acoustic Measurements of Microbubbles at Sea,
W77-06916 1014 2L

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

BUCKINGHAM-DARCY FLUX LAW

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

BUCKINGHAM-DARCY LAW

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

BUDGETING

The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

BUFFALO CREEK (NB)

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

BUFFALO CREEK (NY)

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

BUFFALO NATIONAL RIVER (ARK)

Population Dynamics and Species Diversity of Ichthyo-Parasitofauna of the Buffalo National River,
W77-08446 1017 5C

BUFFALO (NY)

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

BUFFALO RIVER BASIN (NY)

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

BUFFALO RIVER (NY)

Program for Preventing and Eliminating Oil Pollution of the Buffalo River,
W77-01782 1004 5A

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

BUFFLEHEAD DUCK

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

BUILDING CODES

Use of Building Codes: To Regulate Florida's Hurricane Flood Plain,
W77-01096 1003 6E

Jefferson County V Johnson (Comprehensive Land Management and Use Program in Flood-Prone Areas Act),
W77-04931 1010 6E

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

BUILDINGS

A Sanitary Engineer's Viewpoint on the Design, Installation, Maintenance and Cost of Sanitary Drainage Systems in High-Rise Buildings,
W77-01388 1003 8A

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

A Sanitary Engineer's Viewpoint on Tall Buildings,
W77-10213 1021 8A

BULGARIA

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

The Ciliates of Two Bulgarian Tributaries of the Danube which are Polluted: The Rivers Vit and Ossam, (In French),
W77-07573 1015 5B

BULGARIA (BYALA SLATINA)

The State of Natural and Introduced Trees and Shrubs After a Prolonged Drought in the Bayala Slatina Area, (In Bulgarian),
W77-12627 1024 4A

BULK DENSITY

Soil Bulk Densities after Thirty Years under Different Management Regimes,
W77-00287 1001 2G

A Compaction Apparatus for the Preparation of Soil Cores of Different Bulk Densities and Thicknesses,
W77-03067 1006 2G

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Influence of Soil Bulk Density on Horizontal Water Infiltration,
W77-05535 1011 2G

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

The Nature of Changes in Bulk Density with Water Contents in Cracking Clay,
W77-09937 1020 2G

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

BULK WATER TRANSPORTATION

System for Evaluation of the Hazards of Bulk Water Transportation of Industrial Chemicals,
W77-02206 1005 5G

BULKHEAD GATES

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

BULKHEADS

Optimizing Selection of Marine Retaining Walls,
W77-02072 1004 8F

BULL CREEK

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

BULLHEADS

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Attainment of the Final Thermal Preferendum in Brown Bullheads Acclimated to Different Temperatures,
W77-07381 1015 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

BULLIA DIGITALIS

Cadmium Concentrations in the Tissues of Bullia Digitalis (Prosobranchiata) from the South African West Coast,
W77-10203 1021 5C

BULRUSHES

Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

BUOYANCY

Breakwater Construction,
W77-01221 1003 8B

Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

Simplified Analysis of Surface Buoyant Jet,
W77-06298 1013 5B

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

BUOYS

Petroleum Oil Detection Buoy System,
W77-07750 1016 5A

BURAS AREA (LA)

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Loui-

BURAS AREA (LA)

siana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

BURDEKIN - HAUGHTON DELTA (QLD)
Effects of Siltation on Rates of Recharge,
W77-10378 1021 4B

Analysis of the Movement of Water from Recharge Channels and Pits,
W77-10379 1021 4B

BURDEN OF PROOF (LEGAL)
Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

BUREAU OF RECLAMATION
New Growth Centers--A Role for the Bureau of Reclamation,
W77-11775 1023 6B

BURIAL AT SEA
Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

BURIED MARKERS
Relocation of Buried Markers,
W77-08240 1017 2C

BURIED WELL SEALS
Buried Well Seals: A New Method of Reconstruction,
W77-12665 1024 5G

BURLINGTON
Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

BURNHAM CREEK WATERSHED (MINN)
A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

BURNING
Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Catchment Research at Zachariashoek,
W77-01386 1003 4D

Grazing and Debris Burning on Pinyon-Juniper sites--Some Chemical Water Quality Implications,
W77-04392 1009 5B

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Changes in the Quality of Soil Water for Three Years Following Burning,
W77-05212 1011 4C

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

Deposition of Mineral Nitrogen by Rain in the Lamto Savanna, (In French),
W77-07574 1015 5B

The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-12852 1024 5C

BUTANE FREEZING PROCESS
A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

BUTYLAMINES
Hygienic Standardization of the Content in Water of Monoisobutylamine and Diisobutylamine During their Combined Action, (In Russian),
W77-03481 1007 5B

Study on Hygienic Standardization of N-Butylamines in Water Bodies, (In Russian),
W77-04597 1009 5G

BY-PRODUCTS RECOVERY
A Case for Reclamation,
W77-01458 1003 5D

BYPASS
Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

BYPRODUCTS
Recent Advances in Sludge Treatment and Disposal,
W77-00064 1001 5D

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

Method of Producing Char from Pulp Manufacturing Waste Liquor,
W77-01676 1004 5E

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Utilization of the Spent Sulfite Liquor Components in the Pekilo Protein Process and the Influence of the Process upon the Environmental Problems of a Sulfite Mill,
W77-03816 1008 5D

High Yield Stripping Column for Alcoholic Solutions--With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

State-of-the-Art Review of Processes for Treatment and Reuse of Potato Wastes,
W77-06949 1014 5D

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Contribution of the Pulp and Paper Industry to Agriculture (Tsellyulozno-bumazhnaya promyshlennost' -- sel'skomu khozyaistvu),
W77-10702 1021 5E

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

BYRD STATION
Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

Resurvey of the 'Byrd' Station, Antarctica, Drill Hole,
W77-08227 1017 2C

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

BYRD STATION (ANTARCTICA)
Rheological Implications of the Internal Structure and Crystal Fabrics of the West Antarctic Ice Sheet as Revealed by Deep Core Drilling at Byrd Station,
W77-05798 1012 2C

CABLE TOOL DRILLING
The Cable Tool Bit,
W77-01767 1004 8G

Sampling: One Key to Drilling Success,
W77-04279 1009 8G

Ingenuity Sparks Drilling History,
W77-12669 1024 8G

CABLE TOOL DRILLING EQUIPMENT
The Cable Tool Drilling Machine, Part III,
W77-07286 1015 8C

The Cable Tool Drilling Machine, Part IV,
W77-07287 1015 8C

CABLE TOOL RIG MODIFICATIONS
The Dream Spudder,
W77-04116 1009 8B

CABOT STRAIT (CANADA)
Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

CACHE RIVER ALLUVIAL AQUIFER-STREAM SYSTEM
Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

CACHE VALLEY (UTAH)
The Functional and Aesthetic Uses of Two Cache Valley, Utah, Canals,
W77-09796 1020 6B

CACTI
Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

CADDIS FLIES
The Ecology of Caddis Flies (Trichoptera) from Mountain Streams of Southern Tien-Shan (Exemplified by the Fauna of the Ak-Bura River), (In Russian),
W77-02892 1006 2I

CADDISFLIES
Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

CADMIUM
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Effects of Cadmium and Lead upon the Indigenous Heterotrophic Microflora in the Aqueous Environment of the Brackish Estuary-Water of the River Weser, (In German),
W77-01566 1004 5C

Assessment of Cadmium in Fishes From Carinthian Lakes, (In German),
W77-01593 1004 5A

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Cadmium in the Environment - III: A Toxicological and Epidemiological Appraisal,
W77-02633 1006 5B

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Water Hyacinths for Removal of Cadmium and Nickel from Polluted Waters,
W77-03041 1006 5G

Technical and Microeconomic Analysis of Cadmium and its Compounds,
W77-03963 1008 5B

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Distribution of Heavy Metals in Tissues of the Common Seal,
W77-04059 1008 5C

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

Effects of Cadmium on Development and Survival of Herring Eggs,
W77-04554 1009 5C

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

The Chemistry of Lead and Cadmium in Soil: Solid Phase Formation,
W77-05202 1011 5B

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Cadmium Distribution in Forest Ecosystems Irrigated with Treated Municipal Waste Water and Sludge,
W77-06178 1013 5B

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-06255 1013 5C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Solubility and Plant Uptake of Cadmium in Soils Amended with Cadmium and Sewage Sludge,
W77-07055 1014 5B

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

A Survey of Cadmium Occurrence and Concentration in Fish from Eleven Major Reservoirs in South Carolina,
W77-08192 1017 5A

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Release of Cadmium from Clays and Plant Uptake of Cadmium from Soil as Affected by Potassium and Calcium Amendments,
W77-09962 1020 2G

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

Cadmium Concentrations in the Tissues of Bullia Digitalis (Prosobranchiata) from the South African West Coast,
W77-10203 1021 5C

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Etude de L'influence du Cadmium Stable sur le Transfert du Zinx-65 en Ecosysteme Irrigue par Submersion (Riziere Irriguee), (Study of the Influence of Stable Cadmium on the Transfer of Zinc-65 in an Ecosystem Irrigated by Submersion (Irrigated Rice Field),
W77-10387 1021 5C

Le Transfert du Zinc-65 de Sediments a des Larves de Chironomides et a un Poisson D'eau Douce et L'effet du Cadmium sur ce Transfert, (Transfer of Zinc-65 from Sediments to Chironomid Larvae and to a Freshwater Fish and the Effect of Cadmium on Transfer),
W77-10393 1021 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

Retention of a Single Oral Dose of Cadmium in Tissues of the Softshell Turtle, Trionyx Spinifer,
W77-11513 1023 5C

Distribution of Cadmium, Zinc and Copper in the Mussel Mytilus Edulis. Existence of Cadmium-Binding Proteins Similar to Metallothioneins,
W77-11519 1023 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-11526 1023 5C

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

Radioisotope Techniques in Delineation of the Environmental Behavior of Cadmium,
W77-11541 1023 5B

Effects of Oral Administration of Cadmium on Fish - I. Analytical Results of the Blood and Bones, (In Japanese),
W77-12012 1023 5A

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Solubility and Availability of Cadmium in Cadmium-Sludge Amended Soil,
W77-12144 1023 5B

Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

Thin-Layer Chromatographic Determination of Cadmium in Water and Biological Media, (In Russian),
W77-12970 1024 5A

CADMIUM ANALYSIS
Cadmium in the Environment - III: A Toxicological and Epidemiological Appraisal,
W77-02633 1006 5B

CADMIUM CHLORIDE
Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

CADMIUM CLEARANCE
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

CADMIUM COMPOUNDS
Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

CAGE CULTURE (CATFISH)
Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

CAGES (CATFISH)
A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

CAIRO (ILL)
Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

CAISSONS
Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

CALANOID COPEPOD
Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

CALANUS
Phylogeny of the Family Calanidae(Copepoda) on the Basis of a Comparative Morphological Analysis of its Characters,
W77-00394 1001 5C

Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

CALANUS FINMARCHICUS
Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

CALANUS PLUMCHRUS
Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

CALCANEOUS SOILS
Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

CALCAREOUS SOILS
Sorption of Sulfur Dioxide by Calcareous Soils,
W77-00295 1001 5B

Effect of Evaporation Time and Temperature on Water Loss in Calcareous Soil,
W77-04323 1009 2D

Change of Organic Substances in Virgin and Arable Cinnamonic Calcareous Mountain Soils Depending on the Degree of their Erosion, (In Russian),
W77-05220 1011 2J

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: V. Soil Water Content and Method of Nitrogen Application,
W77-09960 1020 2G

The Influence of Cation Exchange Capacity and Depth of Incorporation on Ammonia Volatilization from Ammonium Compounds Applied to Calcareous Soils,
W77-09961 1020 2G

Penetrability and Sorptivity in Calcareous Soils,
W77-11095 1022 2G

Ion Activity Products of Calcium Carbonate In Waters Below the Root Zone,
W77-11438 1022 2K

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

Modification of a Calcareous Sodic Soil as Affected by Leaching with Saline Water,
W77-12277 1024 3C

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Constitution of Southern Calcareous Chernozems Depending on their Density, (In Russian),
W77-12469 1024 2G

CALCEREOUS ALGAE
The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

CALCINATION
Chromium Recovery from Sludges Produced from Chromate-Inhibited Cooling Water,
W77-02874 1006 5D

CALCITE
Calcium Equilibrium in Mixed Ion Aqueous Systems Open to the Atmosphere,
W77-02538 1005 2K

CALCIUM
Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Precipitation of Calcium and Strontium Sulfates Around Plant Roots and Its Evaluation,
W77-01514 1003 2I

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

Physiological Assessment of Calcium Content in Distilled Drinking Water, (In Russian),
W77-02909 1006 5F

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

In Vitro Effect of Organic Nitrogen and Potassium Additions on Nitrogen Mineralization and on Exchanges Between the Mud and Water of a Pond, (In French),
W77-07575 1015 5B

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Heterovalent Cation Exchange Equilibria in Soils With Variable and Heterogeneous Charge,
W77-09440 1019 2G

Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Release of Cadmium from Clays and Plant Uptake of Cadmium from Soil as Affected by Potassium and Calcium Amendments,
W77-09962 1020 2G

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

CALCIUM-45

The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

CALCIUM ALUMINOSILICATES

Low-Cost Chemical Cuts Sand Problems in Heavy Oil Field,
W77-04124 1009 8G

CALCIUM CARBONATE

Deposits Formed by Subglacial Precipitation of CAC03,
W77-00658 1002 2K

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

Calcium Carbonate Distribution in the Surface Sediments of the Indian Ocean,
W77-01919 1004 2L

Distribution of Calcium Carbonate in Surface Sediments of the Atlantic Ocean,
W77-02133 1005 2L

Distribution of Carbonate in Surface Sediments of the Pacific Ocean,
W77-02134 1005 2L

Calcium Equilibrium in Mixed Ion Aqueous Systems Open to the Atmosphere,
W77-02538 1005 2K

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

Calculation of Calcium Carbonate-Carbon Dioxide Equilibrium in Water and Mixtures of Water,
W77-07513 1015 5A

Calcium Carbonate Formation by Enteromorpha Nana Algae in a Hypersaline Volcanic Crater Lake,
W77-09787 1020 2H

Ion Activity Products of Calcium Carbonate In Waters Below the Root Zone,
W77-11438 1022 2K

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

CALCIUM CARBONATE DISTRIBUTION

Distribution of Calcium Carbonate in Surface Sediments of the Atlantic Ocean,
W77-02133 1005 2L

Distribution of Carbonate in Surface Sediments of the Pacific Ocean,
W77-02134 1005 2L

CALCIUM CARBONATES

Calcium Carbonate Precipitation Kinetics, Part I, Pure System Kinetics,
W77-10087 1020 5F

CALCIUM COMPOUNDS

Amelioration of Subsurface Acidity by Leaching of Surface Applied Amendments. A Laboratory Study,
W77-01483 1003 2G

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Removal of Fluorine from Waste Waters. III. Fundamental Tests with Chemical Reagents (Haisuichu no fusso jokyo nikansuru kenkyu. III. Shiyaku kei niyoru kisoshiken),
W77-08626 1018 5D

CALCIUM HYDROXIDE

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

Low-Cost Chemical Cuts Sand Problems in Heavy Oil Field,
W77-04124 1009 8G

CALCIUM ION BINDING

Biology of Blue-Green Algae of Tide Marshes,
W77-02446 1005 5C

CALCIUM OXIDE

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

CALCIUM PHOSPHATE

A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

CALCIUM RETENTION (SOILS)

Calcium Retention in Response to Phosphate Sorption by Soils,
W77-09291 1019 2G

CALCIUM SILICATE CEMENTS

Research on Cements for Geothermal and Deep Oil Wells,
W77-08320 1017 8F

CALCIUM SLUDGE

Liming Farmland with Calcium Sludge,
W77-03163 1007 5D

CALEDON RIVER (SOUTH AFRICA)

Aspects of the Growth and Reproduction of Labeo Capensis in the Caledon River,
W77-10194 1021 2E

CALFORNIA

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

CALIBRATION

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

A Universal Calibration Equation for Price Meters and Similar Instruments,
W77-06943 1014 7B

A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

CALIBRATIONS

Float Calibration in Integrated-Float Techniques,
W77-00088 1001 7B

The Effect of Bulk Density on Neutron Meter Calibration,
W77-00440 1001 2G

The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

CALIFORNIA
Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

One-Dimensional Simulation of Aquifer System Compaction near Pixley, California: 2. Stress-Dependent Parameters,
W77-00490 1001 2F

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Fault, and Soil Characteristics,
W77-00779 1002 2J

Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

Nutrients Lost in Debris and Runoff Water From a Burned Chaparral Watershed,
W77-00810 1002 4C

Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Coastal Engineering Data Network,
W77-00898 1002 2L

Water and Water Rights,
W77-01119 1003 6E

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

Water Pollution Prohibited.
W77-01121 1003 6E

Pollution of Navigable Waters.
W77-01122 1003 6E

Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

Energy for Water,
W77-01273 1003 6D

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

Variations in Coastal Temperatures on the Southern and Central California Coast,
W77-01917 1004 2L

Environmental Impact Assessment, Water Quality Analysis, S. California Bight.
W77-01969 1004 5G

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

Relationships Between Sand Input from Rivers and the Composition of Sands from the Beaches of Southern California,
W77-03324 1007 2L

Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

The Cost of Coastal Zoning.
W77-03535 1007 6E

Feasibility of Transplantation, Revegetation, and Restoration of Eelgrass in San Diego Bay, California,
W77-03546 1007 5G

California's Ground Water.
W77-03548 1007 4B

Urban Water Use in California.
W77-03549 1007 6B

Plan for Improvement of the Delta Levees.
W77-03550 1007 4A

The California State Water Project in 1975.
W77-03551 1007 6B

Vegetative Water Use in California, 1974.
W77-03554 1007 3F

Hurdles in the Path of Coastal Plan Implementation,
W77-03582 1007 6B

California Water Project: Law and Politics,
W77-03583 1007 6E

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

The California Coastal Plan (A Symposium).
W77-03688 1008 6E

California Water Law in Perspective,
W77-03689 1008 6E

General State Powers over Water.
W77-03703 1008 6E

State Administration Generally (Powers and Duties of the Department of Water Resources).
W77-03704 1008 6E

Klamath River Basin Compact.
W77-03705 1008 6E

Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

Marine Sanitation.
W77-03720 1008 6E

A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

The Decomposition of Leaves in Two Southern California Streams,
W77-03829 1008 5B

Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Relationships of Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (Cancer Magister),
W77-04040 1008 5C

Mercury in Tissues of Mussel Off Southern California,
W77-04060 1008 5C

Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

Water (General Interpretation and Administration Provisions).
W77-04383 1009 6E

Where California Stands on Planning for Its Coast,
W77-04463 1009 2L

Thermal Pollution in the Los Angeles-Long Beach Harbor: Consequences and Alternatives,
W77-04476 1009 5B

Inventory of Waste Water Production and Waste Water Reclamation in California 1973.
W77-04558 1009 5D

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

The Management of Urban Coastal Resources,
W77-04845 1010 6B

Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

Reclamation of Water from Wastes in Southern California.
W77-04850 1010 5D

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

Getting More from a Limited Natural Resource.
W77-04911 1010 6E

What's Really Happening in Westlands,
W77-04921 1010 6E

Implementing the Coastal Plan: A New Test for the Concept of State Control for Areas of Critical State Concern,
W77-04922 1010 6E

Water Resources Data for California, 1974: Part 2. Water Quality Records.
W77-04976 1010 7C

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Snow Accumulation as Related to Meteorological, Topographic, and Forest Variables in Central Sierra Nevada, California,
W77-05113 1011 2C

Effect of High Intensity Storms on Soil Slippage on Mountainous Watersheds in Southern California,
W77-05119 1011 4D

Suppression of Evaporation Losses from Snowpacks,
W77-05123 1011 3B

Streamflow Increases After Removing Woodland-Riparian Vegetation from a Southern California Watershed,
W77-05124 1011 4C

Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1974.
W77-05208 1011 2L

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Water Resources Data for California, Water Year 1975--Volume 4. Northern Central Valley Basins and the Great Basin From Honey Lake Basin to Oregon State Line,
W77-05263 1011 7C

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

California Water Resources Center, Annual Report, July 1, 1975-June 30, 1976,
W77-05736 1012 9A

Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Composition of Selected Rain Samples Collected at Menlo Park, California in 1971,
W77-05754 1012 7C

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

California--'Saving the Coast',
W77-06048 1012 6G

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

Fresno Adopts 'Outstanding' Management Plan,
W77-06148 1013 5D

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

Ground-Water Turbidity Resulting from Artificial Recharge,
W77-06312 1013 5B

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

The California State Water Project Summary: 1974.
W77-06362 1013 8A

California Current Eddy Formation: Ship, Air, and Satellite Results,
W77-06523 1013 2L

Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

California-Nevada Interstate Compact.
W77-06575 1013 6E

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Monitoring the Marine Environment Through Sedimentation,
W77-06651 1014 2L

Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A--Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B--Subterrene Cost Analyses,
W77-06664 1014 8A

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

USGS Scientists Bring California Water Supply into Compliance with Federal Regulations,
W77-06853 1014 5G

Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

In Situ Acoustic Measurements of Microbubbles at Sea,
W77-06916 1014 2L

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

The Feasibility of a Water Importation Project for South Florida,
W77-07259 1015 6E

Aspects of the Life History of Tresus Nuttallii in Elkhorn Slough,
W77-07388 1015 2L

Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

Convective Heat Flow from Hot Springs in the Long Valley Caldera, Mono County, California,
W77-07488 1015 2K

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

Urban Land Use: Remote Sensing of Groundbasin Permeability,
W77-08065 1016 7B

Microwave Remote Sensing of Soil Moisture,
W77-08066 1016 7B

Remote Sensing Applications in Water Resources Management by the California Department of Water Resources,
W77-08078 1016 7B

Remote Sensing Inputs to Water Demand Modeling,
W77-08080 1016 7B

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

Wells, Pumping Plants, Conduits and Streams,
W77-08154 1017 6E

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

Ticket to Thermidor: A Commentary on the Proposed California Coastal Plan,
W77-08379 1017 6B

Bank of America National Trust and Saving Association V State Water Resources Control Board (Condition Placed on Water Permit Defeated for Lack of Evidence of Necessity).
W77-08391 1017 6E

Riparian Owner's Right to New Land Created by Reliction or by Accretion Influenced by Artificial Condition Not Produced by Such Owner.
W77-08398 1017 6E

Appropriation of Water.
W77-08405 1017 6E

Usefulness of LANDSAT Data for Monitoring Plant Development and Range Conditions in California's Annual Grassland,
W77-08411 1017 4A

Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

Agricultural Applications of Remote Sensing--A True Life Adventure,
W77-08424 1017 3F

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Activities of the Water Resources Division in California.
W77-08479 1017 7C

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

A Postscript to the Mutual Prescription Doctrine--City of Los Angeles V City of San Fernando,
W77-08490 1017 6E

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

At Sea Testing of a High Sea Oil Recovery System,
W77-09237 1019 5G

Nitrogen Balance in the Southern San Joaquin Valley,
W77-09284 1019 5B

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

Interactions Between Population Density and Water Quality Parameters During a Dinoflagellate Bloom,
W77-09494 1019 5C

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Regulating Development Along the California Coast,
W77-09534 1019 4A

County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

State V Oroville-Wyandotte Irrigation District (Inherent Duality of the Federal Power Act).
W77-09582 1019 6E

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

Los Angeles and Long Beach Harbors Model Study; Report 4, Model Design,
W77-10016 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

Biological Effects and Persistence of Methyl Parathion in Clear Lake, California,
W77-10063 1020 5C

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

Ingram V City of Redondo Beach (Inverse Condemnation Suit Resulting in Damages for Flooding).
W77-10489 1021 6E

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

A Comparison of Operational and LANDSAT-Aided Snow Water Content Estimation Systems,
W77-10683 1021 2C

Nitrogen Uptake and Release in a Forested Watershed, Lake Tahoe Basin, California,
W77-10753 1021 5C

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

Oil in Southern California Marshes,
W77-11034 1022 5C

Oscillations in Harbors Containing Islands,
W77-11046 1022 2L

Study of a Heavy Precipitation Occurrence in Redding, California,
W77-11050 1022 2B

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

Public Rights in Ocean Beaches: A Theory of Prescription,
W77-11157 1022 6E

Regional Water Quality Control,
W77-11162 1022 6E

Urban Renewal Agency of City of Monterey V California Coastal Zone Conservation Commission (Municipal Corporation Exempt from Coastal Zone Conservation Act Permit Requirement).
W77-11178 1022 6E

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

Blumenfeld v San Francisco Bay Conservation and Development Commission (California Statutes Granting Jurisdiction to Conservation Commission Should be Construed so as not to Defeat the Intent of the Legislature).
W77-11180 1022 6E

Amador Valley Investors v City of Livermore (The Acts of a City are not Privileged When Private Property Damage Results from Inadequate Planning of Waste Disposal).
W77-11181 1022 6E

Fallen Leaf Protection Association v South Tahoe Public Utilities District (Provisions of California Water Code Requiring Specific Property Owners to Connect to Sewer Lines Upheld Against Constitutional Challenge).
W77-11182 1022 6E

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

The California Coastal Plan: A Critique,
W77-11855 1023 6B

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

California's Water Reclamation and Desalinization Projects,
W77-12295 1024 5D

Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

Drainage Practice in Imperial Valley, California,
W77-12581 1024 4A

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

Water Projects Go Underground,
W77-12886 1024 4B

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

CALIFORNIA AQUEDUCT
Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

The California State Water Project Summary: 1974.
W77-06362 1013 8A

CALIFORNIA BROWN PELICANS
The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

CALIFORNIA COASTAL ACT
Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

CALIFORNIA COASTAL PLAN
The California Coastal Plan (A Symposium).
W77-03688 1008 6E

CALIFORNIA CURRENT
California Current Eddy Formation: Ship, Air, and Satellite Results,
W77-06523 1013 2L

CALIFORNIA KILLIFISH
Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

CALIFORNIA-NEVADA COMPACT COMMISSION
California-Nevada Interstate Compact.
W77-06575 1013 6E

CALIFORNIA-NEVADA INTERSTATE COMPACT
California-Nevada Interstate Compact.
W77-06575 1013 6E

CALIFORNIA SEA LION
Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

CALIFORNIA STATE WATER PROJECT
Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

CALLAHAN RESERVOIR (MO)
Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

Callahan Reservoir: III. Bottom Sediment-Water-Phosphorus Relationships,
W77-12150 1023 5G

CALLINECTES
Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

CALLITRICHE-OBTUSANGULA
The Distribution of Callitriche Obtusangula Legall in the Streams of the Friedberger au Region, (In German),
W77-04588 1009 5C

Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

CALORIC CONTENT
Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

CALORIC VALUE
The Biomass, Organic Matter Contents and Calorific Values of Macrophytes in the Lakes of the Szeszupa Drainage Area,
W77-11511 1023 5C

CALORIC VALUES (INVERTEBRATES)
Caloric Values of the Most Abundant Invertebrates of Two Woodland-Brooklets of the 'Naturpark Kottenforst-Ville', (In German),
W77-00415 1001 2I

CALORIES
Caloric Changes Along Pulp and Paper Mill Effluent Plumes,
W77-12066 1023 5B

CALORIMETRY
Microcalorimetric Investigations in Polluted Surface Waters, (In German),
W77-04091 1008 5A

CALUMET RIVER (ILL)
Chicago Cleanup: Industry Outdoes the City.
W77-10447 1021 6E

CALUMET RIVER (ILL-IND)
Water Quality in the Calumet Area. Conference on Pollution of Lower Lake Michigan, Calumet River, Grand Calumet River, Little Calumet River, and Wolf Lake, Illinois and Indiana.
W77-03382 1007 5B

CALVERT CLIFFS NUCLEAR POWERPLANT
Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

CAMAS PRAIRIE AREA (IDAHO)
Geothermal Investigations in Idaho: Part 7, Geochemistry and Geologic Setting of the Thermal Waters of the Camas Prairie Area,
W77-12782 1024 4B

CAMBRIDGE GULF-ORD RIVER (WA)
Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

CAMDEN COUNTY (NJ)
Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

CAMERAS
A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

CAMP SITES
Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

CAMPANULARIA FLEXUOSA
The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

CAMPECHE BAY (MEX)
Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

CAMPHOR
Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

CAMPING
Effects of Recreation on Water Quality in Wildlands,
W77-02590 1006 5C

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

CANADA
Kaministiquia Interceptor Sewer Completed in Thunder Bay.
W77-00076 1001 5D

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

Status Report on Abatement of Effluents from the Canadian Pulp and Paper Industry -- 1974.
W77-00331 1001 5G

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Fate of Selected Organic Compounds in the Discharge of Kraft Paper Mills into Lake Superior,
W77-00457 1001 5B

Persistent Organic Compounds from a Pulp Mill in a Near-Shore Freshwater Environment,
W77-00458 1001 5B

Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Model Water Resources Program,
W77-01079 1003 6E

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

Anomalous Local Glacier Activity, Baffin Island, Canada: Paleoclimatic Implications,
W77-01333 1003 2C

A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Characteristics of a Tide-Induced Estuarine Front,
W77-01619 1004 2L

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Warning System for Severe Floods,
W77-01939 1004 7B

Economic and Environmental Impacts of Agricultural Land Drainage in Ontario,
W77-02425 1005 4A

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

Retransmission of Hydrometric Data in Canada,
W77-02506 1005 7C

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

Winter Runoff from an Urban Catchment, (January to March 1974),
W77-02739 1006 4C

Computer-Aided Planning of Regional Sludge Disposal Systems, User's Manual,
W77-02745 1006 5D

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

Urban Hydrological Modeling and Catchment Research in Canada,
W77-02754 1006 2A

Urban Drainage Model Comparison for a Catchment in Halifax, Nova Scotia,
W77-02764 1006 2A

Effects of Pulpwood Harvesting on the Quality of Stream Waters of Forest Catchments Representing a Large Area in Western Alberta, Canada,
W77-02774 1006 5B

Suspended Sediments from Urban Development,
W77-02788 1006 4C

Lake Whitefish (Corregonus Clupeaformis (Mitchill) in Southern Indian Lake, Manitoba,
W77-02821 1006 2H

Temporal Variations in the Phosphorus Content of a Northern Dystrophic Lake,
W77-02824 1006 5C

Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

Abundance and Population Dynamics of Parasites Infecting Atlantic Salmon (Salmo Salar) in Trout Brook, New Brunswick, Canada,
W77-03053 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Undrained Behavior of Embankments on New Liskeard Varved Clay,
W77-03108 1007 8D

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

Monitoring of Community Water Supplies,
W77-03463 1007 5A

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

Suspended Solids and Velocity Distributions in the Ottawa River,
W77-03655 1008 2J

The Ottawa River Project,
W77-03683 1008 5B

Environmental Protection in Mexico and Canada,
W77-03698 1008 6E

Experiments with the Surface Heat and Water Budgets of the Canadian Middle North,
W77-03749 1008 2D

An Historical Sketch of Physical Oceanography in Canada,
W77-03759 1008 2L

Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

A Canadian Arctic Fjord with Some Comparisons to Fjords of the Western Americas,
W77-03977 1008 2L

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

Numerical Model Studies of the Tides Between Vancouver Island and the Mainland Coast,
W77-03984 1008 2L

Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

Storm Surges in the Southern Beaufort Sea,
W77-03986 1008 2L

Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

Water Drag on Arctic Sea Ice,
W77-04901 1010 2C

Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

Water Resources Service Dissolved Gas Study: Interim Data Summary,
W77-05080 1010 5C

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

Problems and Possibilities in Urban Drainage,
W77-05248 1011 5D

BOD5 Decreased to Less Than 10 MG/Liter With Carbon Adsorption System,
W77-05496 1011 5D

Environmental Management '76. An Overview of Federal and Provincial Activities - Environment Canada, The Big Clean-Up Goes On,
W77-05502 1011 5G

Aquatic Environmental Quality: Toxicology,
W77-05608 1012 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Regulations and Waste Characterization,
W77-05709 1012 5G

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

Volumetric Change of the Athabasca Glacier over the Last 100 Years,
W77-05792 1012 2C

Recumbent Folding in the Base of the Barnes Ice Cap, Baffin Island, Northwest Territories, Canada,
W77-05799 1012 2C

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

Salt Water Pumping Controls Sea Water Intrusion,
W77-05972 1012 2L

Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

Mercury Levels in the Rivers of Western Canada 1970-1976.
W77-06363 1013 5A

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Presenting Trends in Lake Eutrophication,
W77-06693 1014 5C

Devon Island Ice Cap: Core Stratigraphy and Paleoclimate,
W77-06890 1014 2C

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

Annotated Bibliography on Northern Environmental Engineering 1974-75,
W77-06948 1014 5D

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W77-06951 1014 5D

Canwel Can Do,
W77-06985 1014 5D

The Chemical Characteristics of the City of Winnipeg Waste Water,
W77-07047 1014 5A

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

Fifty Million Dollars Is a Lot of Fish,
W77-07219 1015 5D

Proceedings of the Annual Conference, April 20-23, 1975, Toronto, Ontario,
W77-07329 1015 5D

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

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W77-07334 1015 5G

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W77-07336 1015 6E

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

Streamflow Regionalization in British Columbia, No. 2, Regression of Mean Annual Flows on Physiographic Parameters,
W77-07434 1015 2E

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Comparison of Primary Productivity (14C) per Unit Biomass Between Phytoplankton and Periphyton in the Ottawa River Near Ottawa, Canada,
W77-07454 1015 5C

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

Aspects of Zoobenthos Ecology of the Mackenzie Delta, N.W.T.,
W77-07499 1015 5C

Uptake and Retention of Kuwait Crude Oil and Its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-07506 1015 5C

Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

Oil Spill at Deception Bay, Hudson Strait,
W77-07731 1016 5G

A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

Nitrates in Some Soil-Water Systems in Quebec, (In French),
W77-07858 1016 5B

Composting--An Approach to Using Sewage Waste,
W77-07876 1016 5E

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Sedimentation: Measurements in Experimental Enclosures,
W77-07990 1016 5C

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Applications of Surface Resistivity Methods,
W77-08244 1017 2F

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

Are Clear-Cut Areas Estimated from LANDSAT Imagery Reliable,
W77-08416 1017 4A

Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

Sewage Sludge Incineration Should Be Improved by Addition of Newsprint Pulp.
W77-08639 1018 5E

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

Manufacturing Water Use Survey, 1972 - A Summary of Results,
W77-09219 1019 3E

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

Environmental Contaminants Inventory Study No. 3, the Production, Use and Distribution of Lead in Canada,
W77-09221 1019 5B

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Study on Economic and Policy Instruments for Water Management. Water Management in Canada.
W77-09462 1019 6E

The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

Distribution and Seasonal Variation of Benthic Fauna in Lake Manitoba,
W77-09484 1019 5C

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Methane Oxidation in a Eutrophic Canadian Shield Lake,
W77-09608 1020 5C

Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Effects of Acidity on the Phytoplankton and Primary Productivity of Selected Northern Ontario Lakes,
W77-10733 1021 5C

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

Aquatic Environmental Quality: Problems and Proposals,
W77-11421 1022 5A

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

The Scales of Hail,
W77-11598 1023 2B

Substantiation of the Priestley and Taylor Parameter Alpha = 1.26 for Potential Evaporation in High Latitudes,
W77-11599 1023 2D

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

Short-Period Internal Waves in the Vicinity of a River-Induced Shear Zone in a Fjord Lake,
W77-11609 1023 2H

Emergence of Chironomidae (Diptera) from Char Lake, Resolute, Northwest Territories,
W77-11652 1023 5C

The Implication of Hydrogeologic Factors in Waste Management on Land (With Special Reference to the Nova Scotia Environment),
W77-11971 1023 5G

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Study of the Benthic Population of Deep Silts from the Gaspe Strait (Gulf of the Saint Lawrence), (In French),
W77-12466 1024 2L

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

Effect of Citrate and Carbonate Based Detergents on Wastewater Characteristics and Treatment,
W77-12773 1024 5D

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 2. Place Glacier, British Columbia - Summary of Measurements,
W77-12788 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 3. Ram River Glacier, Alberta - Summary of Measurements,
W77-12789 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965-1974, No. 4. Peyto Glacier, Alberta - Summary of Measurements,
W77-12790 1024 2C

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

CANADA WATER ACT

The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

CANADA WATER ACT REGULATIONS

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

CANADARAGO LAKE (NY)

Role of Oligochaetes in the Circulation of Water and Solutes Across the Mud-Water Interface,
W77-07508 1015 5C

CANADIAN PROGRAMS

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

CANADIAN SHIELD

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

CANADIAN STORM WATER MANAGEMENT MODEL (SWMM)

Storm Water Management Model Study, Volume III, User's Manual.
W77-12792 1024 5B

CANAL CONSTRUCTION

Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

Lake Washington Ship Canal,
W77-01001 1002 6E

Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

Canal Authority V Ocala Manufacturing Ice and Packing Company (Construction of Cross Florida Barge Canal).
W77-03715 1008 6E

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

CANAL DESIGN

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

CANAL FLUSHING

Flushing Characteristics of a Mississippi Dead-End Canal System,
W77-09721 1020 5B

CANAL LAS MERCEDES (CHILE)

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

CANAL LININGS

Sanitary-Hygienic Aspects of the Use of New Preparations for Controlling Seepage in Water Bodies, (In Russian),
W77-02269 1005 4A

CANAL SEEPAGE

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

CANALS

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Lake Washington Ship Canal,
W77-01001 1002 6E

Circle Investment Co V City of Toledo (Effect of Changing Canal to Limited Access Highway on Abutting Landowners--No Access Required).
W77-01044 1002 6E

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Seepage from Trapezoidal Canal in Anisotropic Soil,
W77-02137 1005 2G

Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

Canal Authority V Ocala Manufacturing Ice and Packing Company (Construction of Cross Florida Barge Canal).
W77-03715 1008 6E

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

Canal Commission Law.
W77-05072 1010 6E

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Response of Ground-Water Levels to Flood Control Operations in Three Basins, Southeastern Florida,
W77-05278 1011 4B

Vertical Migrations: Some Data on the Autumnal Behavior of Zooplankton in a Canal, (In French),
W77-05986 1012 5B

Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Wells, Pumping Plants, Conduits and Streams,
W77-08154 1017 6E

Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

Effect of Sediment Load on Stable Sand Canal Dimensions,
W77-09020 1018 8B

Flushing Characteristics of a Mississippi Dead-End Canal System,
W77-09721 1020 5B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Proportional Weirs as Velocity Controlling Devices,
W77-10118 1021 8B

Mexican-American International Water Quality Problems: Prospects and Perspectives,
W77-11169 1022 6E

United States V Joseph G Moretti, Inc (Court Approved Compromise for Restoration of Area Damaged by Development).
W77-11457 1022 6E

A New Approach for Estimating Irrigation Conveyance Losses and Their Economic Evaluation,
W77-12164 1023 3F

The Unsteady Groundwater Mound Below an Irrigation Ditch or Leaky Canal,
W77-12801 1024 2G

CANARY ISLANDS (SPAIN)
Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

CANCER-INDUCING SUBSTANCES
A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

CANDIDA
Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

Yeasts and Fungi in Marine Environments, (In French),
W77-02904 1006 5B

CANE SUGAR REFINING INDUSTRY
Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

CANEY CREEK (TX)
Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

CANNERIES
Investigation of the Physical Feasibility of Mobile Fish Processing Plants,
W77-03558 1007 6B

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

Canned and Preserved Seafood Processing Point Source Category, Effluent Guidelines and Standards.
W77-06057 1012 5G

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

CANNONSVILLE RESERVOIR (NY)
Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

CANON'S BROOK CATCHMENT (HARLOW ENGLAND)
Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

CANONICAL CORRELATION ANALYSIS
Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

CANOPY
Crown Structure and Distribution of Biomass in a Lodgepole Pine Stand,
W77-00729 1002 2I

Evaluation of Resistance and Mass Transport Evapotranspiration Models Requiring Canopy Temperature Data,
W77-11396 1022 2D

Experimental Evaluation of a Crop Climate Simulation Model for Indian Corn (Zea Mays L.),
W77-11631 1023 3F

Evapotranspiration and Water Use Efficiency by Soybean Lines Differing in Growth Habit,
W77-11965 1023 3F

CANYON FERRY DAM (MONT)
Model Study of Riverbed Material in Canyon Ferry Dam Spillway Stilling Basin,
W77-00834 1002 2J

CANYON LAKE (ARIZ)
Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

CAPACITY (CANALS)
Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

CAPACITY EXPANSION
Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

CAPACITY EXPANSION PLANNING
Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

CAPACITY PLANNING
Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

CAPE BLANC (SPANISH SAHARA)
Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

CAPE COD (MASS)
Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

CAPE FEAR ESTUARY (NC)
Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

CAPE FEAR RIVER ESTUARY (NC)
Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

CAPE HENLOPEN (DEL)
LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

CAPE THOMPSON (ALAS)
A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

CAPES
Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

CAPILLARY ACTION
Reverse Osmosis for the Treatment of Metal Waste Solutions,
W77-03610 1008 5D

Effect of the Groundwater Level and Soil Moisture Content on Photophosphorylation of Barley, Wheat and Oat Chloroplasts, (In Belorussian),
W77-04884 1010 2I

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

Soil Irrigation System and Method,
W77-10996 1022 3F

CAPILLARY CONDUCTIVITY
Flow of Water in Unsaturated Uniform and Layered Porous Materials,
W77-06235 1013 2G

CAPILLARY WATER
Flow of Water in Unsaturated Uniform and Layered Porous Materials,
W77-06235 1013 2G

Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

Estimating the Effective Capillary Pressure in the Green and Ampt Infiltration Equation,
W77-11227 1022 2G

CAPITAL COSTS
Economics of a Freeze Desalting Process Using Cold Seawater Effluent of a Liquid Natural Gas Plant.
W77-00635 1002 3A

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

Energy Uses and Recovery in Sludge Disposal, Part 2,
W77-12498 1024 5E

CAPITAL INVESTMENT
The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

CAPITAL MOBILITY
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

CAPITAL SUPPLY
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

CAPITAL THEORY
The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W77-02068 1004 6C

CAPITELLA CAPITATA
Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

Study on the Long-Term Effects of Some Detergents on the Sequence of Development of the Sedentary Polychaete, Capitella Capitata (Fabricius), (In French),
W77-04067 1008 5C

CAPITELLA SP.
Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

CAPPED WELLS
Bits and Pieces,
W77-06866 1014 8G

CAPTAN
Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

CARASSIUS
Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

CARASSIUS-AURATUS
Studies on the Distribution of 14 C Labelled PCB in the Body. II. the Distribution in Gold Fish (Carrasius Auratus), (In Japanese),
W77-05488 1011 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

CARBAMATE PESTICIDES
Data on Substantiation of the Maximum Allowable Concentration of Yalan in Water Bodies, (In Russian),
W77-04599 1009 5C

Study on the Herbicidal Properties of Benthiocarb; Factors Affecting Herbicidal Activity and Its Behavior in Soil, (In Japanese),
W77-07387 1015 5B

The Chemical Composition of the Lysimetric Water from Sandy Podzolic Soil and Changes Affected by Fertilizers, (In Russian),
W77-09277 1019 2K

CARBARYL
Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Movement of Carbaryl Through Congaree Soil into Ground Water,
W77-09976 1020 5B

CARBOHYDRATE METABOLISM
The Effect of Dissolved Petroleum Products on Some of the Aspects of Carbohydrate Metabolism in Fishes and Invertebrates,
W77-04030 1008 5C

CARBOHYDRATES
Hydrolysis of Press Waste Waters from the Manufacture of Fiber (Insulation) Boards (Contributii la studiul procesului de hidroliza a apelor de presa din circuitul de fabricatie al P.F.L.),
W77-00324 1001 5D

Composition of the Carbohydrate Complex of Aphanizomenon Flos-Aquae (L.) Ralfs, (In Russian),
W77-01209 1003 5C

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. III. Study of Carbohydrate Decomposition Products (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. III. Izuchenie producktov razrusheniya uglevodnoi chasti drevesiny),
W77-02587 1006 5B

Carbohydrates and Nitrogeneous Compounds in a Number of Higher Aquatic Plants and Dynamics of Their Content During Vegetation, (In Russian),
W77-02919 1006 2I

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Accumulation of Reserve Polysaccharide in Activated Sludges Treating Carbohydrate Wastes,
W77-06214 1013 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

Purifying Biological Effluent Rich in Carbohydrates or Protein--By Anaerobic Fermentation Separation, Aerobic Treatment and Then Separation.
W77-08277 1017 5D

CARBON
Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

A Comparison of Nitrogen, Phosphorus, and Carbon in Sediments and Soils of Cultivated and Noncultivated Watersheds in the North Central States,
W77-02292 1005 5G

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

Ecology of Aquatic Saprophytic Phycomycetes. II, (In Russian),
W77-03201 1007 5C

Factors Affecting Powdered Carbon Treatment of a Municipal Wastewater,
W77-03430 1007 5D

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

The Utilization of Dissolved Free Amino Acids by Estuarine Microorganisms,
W77-07117 1015 5C

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Extracellular Release in Planktonic Bacteria,
W77-07996 1016 5C

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-08670 1018 5B

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-09917 1020 5B

Parameters which Influence the Organic Carbon Determination in Water,
W77-10092 1020 5A

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

CARBON-14

Transport of Carbon14-Assimilates in the Sugar Beet Under Different Conditions of Nutrition and Moisture, (In Russian),
W77-00421 1001 5B

Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

The Primary Production of Lake Sibaya, Kwazulu, South Africa,
W77-03376 1007 5C

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Studies on the Distribution of 14 C Labelled PCB in the Body. II. the Distribution in Gold Fish (Carrasius Auratus), (In Japanese),
W77-05488 1011 5C

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

CARBON ADSORPTION

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

CARBON ANALYSERS

The Design of a Fully Automatic Liquid Injection Apparatus for Use on a Carbon Analyser,
W77-10209 1021 5A

CARBON BUDGET

A Carbon Budget for Lake Ontario,
W77-07967 1016 5C

CARBON CYCLE

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

A Carbon Budget for Lake Ontario,
W77-07967 1016 5C

Carbon Dioxide Exchange and Productivity in Lake Erie and Lake Ontario,
W77-09485 1019 5C

CARBON DIOXIDE

The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

The Physical-Chemical Conditions of the Waters of the Lake of Orta During the Period from 1964 to 1970, (In Italian),
W77-01038 1002 5C

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

CO2 Compensation Point for Photosynthesis: Effect of Variable CO2 and Soil Moisture Levels,
W77-01899 1004 2I

The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

The Distribution of Callitriche Obtusangula Legall in the Streams of the Friedberger au Region, (In German),
W77-04588 1009 5C

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Dynamics of O2 and CO2 Exchange, Photosynthesis, and Respiration in Rivers from Time-Delayed Correlations with Ideal Sunlight,
W77-07364 1015 5C

Calculation of Calcium Carbonate-Carbon Dioxide Equilibrium in Water and Mixtures of Water,
W77-07513 1015 5A

Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Method of Filtering Liquids Containing Dissolved Carbon Dioxide,
W77-08013 1016 5D

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

Carbon Dioxide Exchange and Productivity in Lake Erie and Lake Ontario,
W77-09485 1019 5C

Analysis of the Population Dynamics of Oscillatoria Redekei Van Goor in Lake Edeberg,
W77-09629 1020 5C

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Dioxide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

A System and Program for Monitoring CO2 Concentration, Gradient, and Flux in an Agricultural Region,
W77-12120 1023 7B

Effects of Hypercapnia on the Buffer Capacity and Haematological Values in Salmo Salar (L.),
W77-12658 1024 5C

CARBON FILTERS
Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

CARBON METABOLISM
Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

CARBON RADIOISOTOPES
Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

U S Geological Survey, Water Resources Division, Radiocarbon Measurements I,
W77-08169 1017 4B

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

CARBON-STEAM REACTION
Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

CARBON TREATMENT
Factors Affecting Powdered Carbon Treatment of a Municipal Wastewater,
W77-03430 1007 5D

CARBONACEOUS OXYGEN DEMAND
A Study on the Strength of Sewage,
W77-07853 1016 5B

CARBONATE ROCKS
Bicarbonate Content of Groundwater in Carbonate Rock in Eastern North America,
W77-02020 1004 2K

Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

CARBONATE TERRAIN
Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

CARBONATES
Sodium Carbonate in Ground Waters of the Turkmen SSR, (In Russian),
W77-00384 1001 3C

Simultaneous Determination of Total, Non-Carbonate and Carbonate Water Hardness by Direct Potentiometry,
W77-03780 1008 5A

Effect of Citrate and Carbonate Based Detergents on Wastewater Characteristics and Treatment,
W77-12773 1024 5D

CARBONIC ANHYDRASE
Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

CARBONYL COMPOUNDS
Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

CARBONYLS
Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

CARBOXYLIC ACIDS
Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

CARCINOGENESIS
Asbestos in Potable Water,
W77-06016 1012 5A

CARCINOGENIC CHEMICALS
A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

CARCINOGENS
Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress.
W77-03360 1007 5A

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Toxic Pollutant Effluent Standards for Benzidine.
W77-08359 1017 5G

A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

Acute Toxicity of Water-Borne Dimethylnitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

CARDIOVASCULAR DEATHS
Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

CAREX-ROSTRATA
Macrophytes and Phosphorus in Lake Andsjon, Central Sweden, (In Swedish),
W77-07582 1015 5C

CARIACO TRENCH (VENEZUELA)
Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

CARIBBEAN
Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

CARIBBEAN ISLANDS
A Comparison of Environments of Rain Forests in Dominica and Puerto Rico,
W77-10988 1022 2G

CARIBBEAN SEA
The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

CARIBBEAN SEA (ANEGADA-JUNGFERN PASSAGE)
Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

CARICA PAPAYA
Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

CARINTHIAN LAKES
Assessment of Cadmium in Fishes From Carinthian Lakes, (In German),
W77-01593 1004 5A

CARIO (EGYPT)
Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

CARLYLE LAKE (ILL)
Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

CARMAN (CANADA)
Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

CARNIVORES
Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

CARNIVOROUS CRABS
The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

CARP
Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

Development of the Chlorococcal Alga Coelastrum Microporum Naeg. in Fish-Breeding Ponds, (In Russian),
W77-02248 1005 5C

Study About the Toxic Action of Zinc on One Summer Old Carp: I. Lethal Concentrations, (In Bulgarian),
W77-02896 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

The Optimal Zooplankton Biomass in Fish-Rearing Ponds, (In Russian),
W77-06406 1013 2I

A Study on the Intensive Carp Culture in the Artificially Aerated Pond, (In Japanese),
W77-06431 1013 8I

Survival Rate and Oxygen Consumption of Juvenile Wild Carp Maintained Under Different Conditions,
W77-06467 1013 5C

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Effect of Two Rearing Conditions on Growth and Body Composition in Carp (Cyprinus Carpio L), (Influence de Deux Modes d'Elevage sur la Croissance et la Composition Corporelle de la Carpe Commune),
W77-06769 1014 5C

Median Tolerance Limits of Some Chemicals to the Fresh Water Fish Cyprinus-Carpio,
W77-06780 1014 5C

Experiment with a Multipoint System for Judging Carp Fattening Ponds, (In Russian),
W77-06798 1014 2H

Uptake of Dissolved Ammonium and Nitrate Ion by the Fry of Common Carp, Crucian Carp and Loach from Surrounding Water, (In Japanese),
W77-07314 1015 5C

Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

A Seasonal Study of the Haematology of Carp (Cyprinus Carpio) from a Locality in the Transvaal, South Africa,
W77-10216 1021 5C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

Ion Stimulation of Metabolism in Fish Adapting to Growth in Warm Water, (In Ukranian),
W77-10971 1022 5C

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Serum Iron Level and Total Iron Binding Capacity in Culture Fish,
W77-11543 1023 5A

Effects of Oral Administration of Cadmium on Fish - I. Analytical Results of the Blood and Bones, (In Japanese),
W77-12012 1023 5A

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

Model Kumulacji 137CS U Karpia (Cyprinus Carpio L.) a Model of the Cumulation of 137CS in the Carp Cyprinus Carpio L.), (In Polish),
W77-12215 1023 5C

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

CARPATHIANS REGION (USSR)
The Effect of Stand Structure on Water Regime of Mountain Soils of the Carpathians, (In Russian),
W77-02923 1006 4A

CARRIERS
Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

CARRIZO-WILCOX AQUIFER (TEX)
Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

CARROTS
Meeting Effluent Discharge Requirements and Water Reuse,
W77-10343 1021 5D

CARRYING CAPACITY
Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

CARS
Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

CARSON RIVER BASIN
California-Nevada Interstate Compact.
W77-06575 1013 6E

CARSON RIVER BASIN (WESTERN NEV)
Water-Resources Appraisal of the Carson River Basin, Western Nevada,
W77-09992 1020 4A

CARTELS
International Commodity Cartels and the Threat of New Entry: Implications of Ocean Mineral Resources,
W77-04172 1009 6E

CARTOGRAPHIC RESEARCH
Mapping.
W77-11363 1022 7C

CASCADE MOUNTAINS (WASH)
Present and Past Glaciation Threshold in the Cascade Range, Washington, U.S.A.: Topographic and Climatic Controls, and Paleoclimatic Implications,
W77-08056 1016 2C

CASCO BAY (MA)
Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

CASCO (ME)
Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

CASCO (WIS)
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

CASE STUDIES
Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

CASING WEAR
Better Protection for Casing and Tool Joints,
W77-08315 1017 8G

CASPIAN SEA
Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Drinking Water Supply in Krasnovodsk, (In Russian),
W77-02902 1006 3A

Use of Caspian Sea Water for Irrigation,
W77-04263 1009 3C

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

CASPIAN SEA (USSR)
Procedure for Hygienic Studies in Determining Local Methods for Protecting Water Resources of Marine Bodies of Water, (In Russian),
W77-05878 1012 5B

CASTLE LAKE (CALIF)
Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

CATALYSIS
Method of Treating Waste Water,
W77-00566 1002 5D

CATALYSTS
The Catalytic Wet Oxidation of Strong Waste Waters,
W77-02597 1006 5D

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

Additional Studies on the use of Cracking Catalysts in Conjunction with Activated Sludge Waste Water Treating,
W77-06129 1013 5D

Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

CATALYTIC CONVERTERS
Ozone Removal from Arc Lamp Cooling Air,
W77-02511 1005 7B

CATALYTIC DEOXYGENATION
Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

CATALYTIC KINETICS
Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

CATALYTIC OXIDATION
An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

CATANIA (ITALY)
Bacteriological Characteristics of the Coast Waters in the District of Catania (Italy), (In Italian),
W77-04084 1008 5G

CATCH STATISTICS
Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

CATCHMENT MODELS
The Integrated Hydrological Catchment Model EGMO,
W77-11815 1023 2A

CATEGORIZATION
An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

CATFISH
The Effect of Sub-Lethal Lead Concentrations on the Chemoreceptors of Two Fresh Water Fish Species, (In German),
W77-02383 1005 5C

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

CATFISH CULTURE
Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

CATFISH WASTES
Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

CATFISHES
The Editor's Notebook: About Discharge Regulations.
W77-01541 1003 5G

Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

Productivity of Clarias Batrachus in the Sewage Fertilized Fish Ponds,
W77-09922 1020 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

CATHODIC PROTECTION
Cathodic Projection of Borehole Casing,
W77-07297 1015 8G

CATION ABSORPTION (PLANTS)
Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

CATION ADSORPTION
Dynamics of Interaction of Cations and Fulvic Acid,
W77-03662 1008 2K

Experimental Study of Multi-Cation Diffusion in an Artifical Quartz Sandstone,
W77-08811 1018 2K

Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

CATION EXCHANGE
Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

Use of Ammonia Electrode for Determination of Cation Exchange Capacity in Soil Studies,
W77-00300 1001 2G

Graphical Representation of Tricationic Exchanges Where One of the Cations is the Proton,
W77-00304 1001 2G

Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

Investigations on the Crosslinking of Spent Sulfite Liquor (Untersuchungen zur Vernetzung technischer Sulfitablauge),
W77-04807 1010 5D

Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Heterovalent Cation Exchange Equilibria in Soils With Variable and Heterogeneous Charge,
W77-09440 1019 2G

Cation-Exchange Capacity of Acid Soils Using Aluminum Chloride and Barium Chloride-Triethanolamine,
W77-09652 1020 2G

The Influence of Cation Exchange Capacity and Depth of Incorporation on Ammonia Volatilization from Ammonium Compounds Applied to Calcareous Soils,
W77-09961 1020 2G

Estimation of Components of Soil Cation Exchange Capacity from Measurements of Specific Surface and Organic Matter,
W77-09971 1020 2G

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

Sample Pretreatment for Determination of Some Anions in Highly Polluted Effluents (Uprava vzorku pred stanovenim nekterych aniontu v silne znecistenych odpadnich vodach),
W77-10692 1021 5A

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

CATION EXCHANGE CAPACITY
The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

CATIONIC POLYMERS
Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

CATIONIC SURFACTANTS
Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

CATIONS
Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Dynamics of Interaction of Cations and Fulvic Acid,
W77-03662 1008 2K

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

Metals in Organisms from Saldanha Bay and Langebaan Lagoon Prior to Industrialization,
W77-10205 1021 5C

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

Leaching of Phosphate and Selected Cations from Sandy Soils as Affected by Lime,
W77-12172 1023 5B

The Influence of Cations on Chlorine Toxicity,
W77-12249 1023 5C

CATOSTOMUS COMMERSONI
Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

CATTAILS
Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Chemical Inputs by a Colony of Franklin's Gulls Nesting in Cattails,
W77-10142 1021 5C

CATTARAUGUS CREEK HARBOR (NY)
Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

CATTLE
Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

Confined Animals and Public Environment,
W77-04617 1010 5B

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

CAUSEWAYS
Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Content of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

CAVE CREEK (AZ)
Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

CAVERNOUS AQUIFERS
Thermal Convection in a Cavernous Aquifer,
W77-05951 1012 2F

CAVITATION
Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

Avoiding the Perils of Cavitation,
W77-08674 1018 8C

Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Cavitation and Resistance to Water Flow in Plant Roots,
W77-11106 1022 2I

Effect of Some Hydromechanical Factors on the Physiological State of Microcystis Aeruginosa Kuetz. Emend Ekenk, (In Russian),
W77-12321 1024 2I

CAVITATION DAMAGE
Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

CAVITIES
Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

CAVITOMETERS
Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

CAZENOVIA CREEK (NY)
Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

CEARA (BRAZIL)
Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

CECIL CLAY LOAM
Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

CEDAR LEACHATES
The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

CEDAR RAPIDS (IA)
Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

CEDAR RIVER (WASH)
Evapotranspiration of a Douglas Fir Determined with a Weighing Lysimeter,
W77-05959 1012 2D

CELL ENVELOPE
Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

CELL LYSIS
Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

CELL RESIDENCE TIME
Evaluation of Activated Sludge Control Techniques Through Pilot Plant and Computer Analyses,
W77-00157 1001 5D

CELLULOSE
Study of Dewatering of Cellulosic Sludge from the Viscose Fiber Industry (Issledovanie po obezvozhivaniyu tsellyuloznogo shlama predpriyatii viskoznogo volokna),
W77-02575 1005 5D

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Biodegradation of Cellulosic Substrates,
W77-09522 1019 5B

Synthesis and Study of Ion-Exchange Celluloses. Their Use in the Purification of Waste Waters from the Textile Industry. I. Synthesis of a Cellulose Grafted with Polyacrylic Acid Chains and of a Cellulose Incorporating Quaternary Ammonium (In French),
W77-12337 1024 5D

CELLULOSE ACETATE MEMBRANES
Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

CELLULOSE NITRATE
Treatment of Wastewater From Military Explosives and Propellants Production Industry by Physicochemical Processes,
W77-08337 1017 5D

Investigation of the Effectiveness of Polymers in the Treatment of Nirocellulose-Manufacturing Wastewater,
W77-08338 1017 5D

CELTIC SEA
A Model of the Annual Cycle of Temperature in a Frontal Region of the Celtic Sea,
W77-09708 1020 2L

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

CEMENT CLASSIFICATIONS (API)
Cementing Oil and Gas Wells, Part 3,
W77-08328 1017 8F

CEMENT GROUTING
Cementing Oil and Gas Wells, Including Casing Handling Procedures: Part 1,
W77-07697 1016 8F

Slurry and Pumping Guidelines Smooth Casing-Cementing Jobs,
W77-07699 1016 8F

Cementing Oil and Gas Wells, Part 3,
W77-08328 1017 8F

Auxiliary Cementing Materials Contribute to Successful Jobs,
W77-10524 1021 8F

Heavy Rains, Poor Soil Force Internal Sewer Repair.
W77-12459 1024 8F

CEMENT-MUD SPACERS
Cement-Mud Spacer System Improves Illinois Wells,
W77-08647 1018 8F

CEMENTING METHODS
Improved Cementing Techniques for Large Diameter Casing,
W77-04291 1009 8F

CEMENTING SYSTEM
New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

CEMENTS
Improved Cementing Techniques for Large Diameter Casing,
W77-04291 1009 8F

Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

Research on Cements for Geothermal and Deep Oil Wells,
W77-08320 1017 8F

Cementing Oil and Gas Wells, Part 3,
W77-08328 1017 8F

Cement-Mud Spacer System Improves Illinois Wells,
W77-08647 1018 8F

Specialty Cements Can Solve Special Problems,
W77-08664 1018 8F

Additives Tailor Cement to Individual Wells,
W77-08665 1018 8F

Auxiliary Cementing Materials Contribute to Successful Jobs,
W77-10524 1021 8F

Cementing Oil and Gas Wells, Part 4,
W77-10528 1021 8F

Cementing Oil and Gas Wells, Part 5,
W77-10529 1021 8F

CENOZOIC ERA
Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

CENSUS
A Case Study of Citizen Participation in Resource Planning: The Crawford County Critical Resource Information Workshop.
W77-00171 1001 6B

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Assateague Ecological Studies.
W77-03381 1007 5C

Idaho Environmental Overview,
W77-03557 1007 6G

Remote Sensing Applications in the Inventory and Analysis of Environmental Problems,
W77-08438 1017 5A

CENTER-PIVOT IRRIGATION
Center Pivot Irrigation,
W77-00968 1002 3F

Herbicides and Surface Irrigation-Do They Make A Team,
W77-02200 1005 3F

Scheduling Center Pivot Sprinkler Irrigation Systems for Corn Production in Eastern Colorado,
W77-12138 1023 3F

CENTER PIVOT IRRIGATION SYSTEMS
Uniform Slurry Spreading with a Center Pivot Irrigation System,
W77-12612 1024 5D

The Corner System - A Variable Radii Center Pivot System,
W77-12621 1024 3F

CENTER SLUICE INVESTIGATIONS
Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

CENTRAL AND SOUTHERN FLORIDA
Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

CENTRAL ARIZONA PROJECT
Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

CENTRAL IDAHO BATHOLITH
The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

CENTRAL SACRAMENTO VALLEY (CALIF)
Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

CENTRAL SIERRA NEVADA (CALIF)
Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

CENTRAL U.S.
A Compendium of Lake and Reservoir Data Collected by the National Eutrophication Survey in the Northeast and Northcentral United States.
W77-03784 1008 5C

A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

Satellite Microwave Observations of Soil Moisture Variations,
W77-09335 1019 2G

CENTRAL US.
The National Flood Insurance Act of 1968 and Flood Plain Zoning in Arkansas, Nebraska, North Dakota, Mississippi, Tennessee, South Dakota, and Kansas,
W77-01099 1003 6E

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

CENTRIFUGAL PUMPS
Unintentional Introductions of Fishes Via Hydroelectric Power Stations and Centrifugal Pumps,
W77-10225 1021 8I

Impeller Design Keeps Down Pump Set Maintenance.
W77-12439 1024 8C

CENTRIFUGATION
New Method of Sewage Sludge Decontamination, (In Russian),
W77-00352 1001 5D

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Investigation of the Problem of Determining Total Suspended Solids in Pulp and Paper Effluents,
W77-01652 1004 5A

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Continuous Bowl-Type Centrifuges for the Clarification and Dehydration of Sludges from the Paper Industry (Centrifugeuses Continues A Bol Plein Pour Clarification et Deshydration des Boues Dans L'Industrie Papetiere).
W77-03613 1008 5D

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Continuous Solid-Bowl Centrifuges for Clarification and Dewatering of Sludges in the Paper Industry (Centrifugeuses continues a bol plein pour clarification et deshydratation des boues dans l'industrie papetiere).
W77-04817 1010 5D

Cyclone with Plural Peripheral Discharge Tubes,
W77-06460 1013 5D

Sludge Dewatering on Alaska's North Slope,
W77-07030 1014 5D

Characterizing Sludge for Centrifugal Dewatering,
W77-08535 1017 5D

Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

Growth and Benefits of Low Speed Configuration,
W77-10622 1021 5D

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

Thermal Drying of Sludge,
W77-11743 1023 5E

Impeller Design Keeps Down Pump Set Maintenance.
W77-12439 1024 8C

CENTRIFUGES (TREATMENT)
Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Continuous Solid-Bowl Centrifuges for Clarification and Dewatering of Sludges in the Paper Industry (Centrifugeuses continues a bol plein pour clarification et deshydratation des boues dans l'industrie papetiere).
W77-04817 1010 5D

CEPHALOPODA
The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

*** CERCOSPORA RODMANII**
Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

CERIUM
Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

CESIUM
Vertical Distribution of Strontium-90 and Cesium-137 in Bottom Deposits of Rivers and Lakes, (In Russian),
W77-01560 1004 5B

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

Behaviour of Caesium-137 in the Marine Environment,
W77-10389 1021 5C

The Behaviour of SR90 and CS137 in the Waters of the Baltic Sea,
W77-10394 1021 5B

Model Kumulacji 137CS U Karpia (Cyprinus Carpio L.) a Model of the Cumulation of 137CS in the Carp Cyprinus Carpio L.), (In Polish),
W77-12215 1023 5C

CESIUM-137
Effect of Some Chemical Elements on the Accumulation of Cesium-137 in Freshwater Fish, (In Russian),
W77-08322 1017 5C

CESSPOOLS
The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

CESTODES
Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

CETACEANS
Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

CETRARIA
Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

CHADAKOIN RIVER (NY)
Flood Plain Information: Chadakoin River, Jamestown-Falconer, New York.
W77-11841 1023 4A

CHAGVAN BAY (AK)
Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

CHAIN BRANCHING
A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

CHAIN PICKEREL
Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

CHANCE-CONSTRAINED PROGRAMMING
Optimal Design of Single Reservoir System Using (Delta) Relase Policy,
W77-00109 1001 4A

CHANDELEUR ISLANDS (LA)
Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

CHANDLER'S SCORE SYSTEM
Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

CHANNEL CAPACITY
Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

CHANNEL CATFISH
Hydrogen Ion Concentration in the Gastrointestinal Tract of Channel Catfish,
W77-01062 1002 5C

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Further Studies of Cold-Shock Effects on Susceptibility of Young Channel Catfish to Predation,
W77-05564 1011 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Nitrification in an Aquatic Recirculation System,
W77-05631 1012 5C

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

Plutonium-237: Comparative Uptake in Chelated and Non-Chelated Form by Channel Catfish (Ictalurus Punctatus),
W77-11642 1023 5C

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

CHANNEL DEEPENING

Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

CHANNEL ENLARGEMENT

The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

CHANNEL EROSION

Channel Erosion Surveys Along Taps Route, Alaska, 1975,
W77-00433 1001 2J

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Designing for Sediment Transport,
W77-08962 1018 4D

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

Stream Junctions-A Probable Location for Bedrock Placers,
W77-12322 1024 2J

CHANNEL FLOW

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

Waterway Districts.
W77-03516 1007 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

A Note on Long Waves in Shallow Channels with Running Water,
W77-04752 1010 2E

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

Performance Characteristics of a Grassed-Waterway Transition,
W77-08849 1018 4D

Roughness Effects on the Flow Direction Near Curved Stream Beds,
W77-09038 1018 8B

Critical and Brink Depths in Elliptical Sewers,
W77-09841 1020 8B

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

CHANNEL IMPROVEMENT

Submerged Burlap Strips Aided Rehabilitation of Disturbed Semiarid Sites in Colorado and New Mexico,
W77-00727 1002 4D

Channel Improvements of the Missouri River,
W77-00836 1002 4D

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

Grays Harbor Estuary, Washington, Report 6, 45-FT MSL (40-FT MLLW) Navigation Channel Improvement Studies; Hydraulic Model Investigation,
W77-02963 1006 8B

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

Austin v Bedford, Iowa, (Conflict in Conveyance Rights and Use of Dirt Fill).
W77-06070 1012 6E

Evaluation of the Environmental Impact to Appalachian Pennsylvania Waters of the 1972 Flood and Subsequent Stream Channelization with Future Policy Recommendations.
W77-06676 1014 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Dredge River Channel: Naval Submarine Base, New London, Groton, Connecticut (Final Supplement to Final Environmental Impact Statement).
W77-10454 1021 6G

An Asphalt Incorporator and Packer for Lining Irrigation Ditches,
W77-11411 1022 4A

Corps Games in Mid-America,
W77-11473 1022 6E

Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

CHANNEL IMPROVEMENTS

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

CHANNEL MORPHOLOGY

Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

Similarity of the Mean Motion of Fluid Particles Dispersing in a Natural Channel,
W77-00371 1001 5B

Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

Characteristics of Stable Natural Channels and Their Relation to Channel Design,
W77-00828 1002 8B

Observed Channel Changes in a Mountain Stream Due to Increased Flow From Transbasin Imports,
W77-00829 1002 8B

Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

Channel Changes Produced by the 1973 Flood on the Lower Mississippi River,
W77-00833 1002 2J

Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

Flood Characteristics of Streams in Owyhee County, Idaho,
W77-02027 1004 2E

The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

Properties of Channel Wandering,
W77-06305 1013 2E

Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

Techniques for Estimating Flow Characteristics of Wyoming Streams,
W77-07495 1015 4A

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

Stream-Channel Response to Floods, With Examples from Central Texas,
W77-12553 1024 2J

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

CHANNEL MORPHOMETRY

Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

CHANNEL NETWORKS

Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

CHANNEL RESISTANCE

Effect of Temperature on Channel Resistance,
W77-06517 1013 8B

CHANNEL RESTORATION

A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

CHANNEL ROUTING

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

CHANNEL STABILIZATION

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

CHANNEL WANDERING

Properties of Channel Wandering,
W77-06305 1013 2E

CHANNEL (WATERWAYS)

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

CHANNELING

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

CHANNELIZATION
Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

CHANNELIZED STREAMS
Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

CHANNELS
Environmental Impact of Stream Channelization,
W77-00375 1001 6G

Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

Adjustment of Stream-Channel Shape to Hydrologic Regime,
W77-00379 1001 8B

Characteristics of Stable Natural Channels and Their Relation to Channel Design,
W77-00828 1002 8B

Sediment Movement Induced by Ships in Restricted Waterways,
W77-00886 1002 2L

Connecting Channel Between Two Different Water Levels,
W77-01207 1003 8C

Kerbs and Channels,
W77-01389 1003 8F

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Experimental Investigation of Flow Over Side Weirs,
W77-03317 1007 8B

Supercritical Flow Over Sills,
W77-03747 1008 8B

Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

Computer Modeling of Erodible Flood Channels and Deltas,
W77-03993 1008 2J

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Manning's Roughness for Artificial Grasses,
W77-04255 1009 4A

Water Pollution Control Act of 1972 Regional Impacts Houston Ship Channel/Galeston Bay.
W77-04309 1009 5G

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

Sinkage and Resistance for Ships in Channels,
W77-08873 1018 8B

Brink Depth Method in Rectangular Channel,
W77-09695 1020 8B

Waterlo, A Data Bank and Computer System for River Channel Networks and River Basins in Belgium,
W77-10827 1022 4A

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Sediment Concentration and Duration in Stream Channels,
W77-11825 1023 2J

Natural Catchment Representation by a Series Model of Linear Channels-Part 1,
W77-12096 1023 2A

Natural Catchment Representation by a Series Model of Linear Channels-Part 2,
W77-12097 1023 2A

CHAOBORUS PUNCTIPENNIS
Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

CHAPARRAL
Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

CHAPARRAL MANAGEMENT
Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

CHAPPARRAL
The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

CHAPPELL PROCESS (TANNING WASTES)
Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

CHAR ANALYSIS
Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

CHAR LAKE (NWT)
Emergence of Chironomidae (Diptera) from Char Lake, Resolute, Northwest Territories,
W77-11652 1023 5C

CHARA
Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

CHARDZHOU OBLAST (USSR)
Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

CHARGED DROPS
A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence: Part II. Charged Drop Seeding,
W77-11828 1023 2B

CHARLES RABOTS BRE GLACIER
Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

CHARLES RIVER BASIN (MASS)
Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

CHARLESTON HARBOR (SC)
Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

CHARLESTOWN (RI)
The National Flood Insurance Program and Coastal Real Estate Development: The Ex-

perience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

CHAROPHYTA
Radioecological Study of Charophyta, (In Russian),
W77-04068 1008 5C

CHARS
Dynamics of the Parasite Fauna of Different Forms of Salvelinus Alpinus L. from the Basin of Lake Azabachje, (In Russian),
W77-01597 1004 2H

CHATKAL RIVER
Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

CHATTAHOOCHEE-FLINT-APALACHICOLA (GEO)
Water Pollution Control Act of 1972, Regional Impacts, Chattahoochee-Flint-Apalachicola, (Parts 1 and 2).
W77-01980 1004 5G

CHAUTAUGUA LAKE (NY)
Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

CHEATOMORPHA
Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

CHECK DAMS
Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

CHECK STRUCTURES
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

CHEESE WHEY
Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

CHELANT-SURFACTANTS
Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

CHELATE ABSORPTION (PLANTS)
Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

CHELATES
Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: II. Supply of Iron,
W77-11955 1023 3C

CHELATING AGENTS
Chelating Agent Analysis by High Speed Liquid Chromatography,
W77-08286 1017 5A

CHELATION
Complexation of Trace Metals by Ethylenediaminetetraacetic Acid (EDTA) in Natural Waters,
W77-00604 1002 5A

Complexation of Metals in Natural Water,
W77-01296 1003 5C

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Chelating Agent Analysis by High Speed Liquid Chromatography,
W77-08286 1017 5A

Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

CHEM CONTROL
State Consideration of the Rivers Zeta and Moraca Based on the Chemical Control, (In Serbo-Croatiau),
W77-02266 1005 5G

CHEMCONTROL
Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

CHEMIAL ANALYSIS
Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

CHEMICAL ANALYSES
Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

CHEMICAL ANALYSIS
Chemical Changes in the Soil Solution from a Spodosol Irrigated with Secondary-Treated Sewage Effluent,
W77-00040 1001 5E

Variable Nature of Chemical Composition of Sewage Sludges,
W77-00602 1002 5A

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Environmental Impact of Chemicals,
W77-02836 1006 5G

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

CHEMICAL ANALYSIS

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

Composition of Selected Rain Samples Collected at Menlo Park, California in 1971,
W77-05754 1012 7C

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

Drugs and Drug Metabolites as Environmental Contaminants: Chlorophenoxyisobutyrate and Salicylic Acid in Sewage Water Effluent,
W77-07045 1014 5A

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Investigation of Detection Limits for Solutes in Water Measured by Laser Raman Spectrometry,
W77-08171 1017 2K

Impurity Concentrations in Sea Ice,
W77-08237 1017 2C

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

Chemical and Isotopic Investigations of Groundwater in Potential Geothermal Areas in Hawaii,
W77-09082 1018 2K

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

Investigations on Precipitation from Various Locations in Norway 1965-71,
W77-11785 1023 2B

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

CHEMICAL COMPLEXING

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

CHEMICAL COMPOSITION

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

CHEMICAL COMPOUNDS

Deep Water Resources of the Limestones of Franche-Comte: Problems of Quantity and Quality, (In French),
W77-08122 1017 4B

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

CHEMICAL CONTROL METHODS

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

CHEMICAL DEGRADATION

Thermal Stress for Hexadecane Decomposition in Seawater of a Natural Environment,
W77-00876 1002 5C

Hydrazine Degradation in Aquatic Systems,
W77-00879 1002 5C

Transformation of Chemical Substances in Water Bodies and During Water Treatment as a Hygienic Problem, (In Russian),
W77-01552 1004 5F

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Kinetics of Chemical Degradation of Malathion in Water,
W77-04800 1010 5B

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Chlorination Reactions of Fulvic Acids in Natural Waters,
W77-09741 1020 5F

Organic Matter and Parathion Degradation in Flooded Soil,
W77-11561 1023 5B

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon: No. II,
W77-11830 1023 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

CHEMICAL DISPERSANT
Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

CHEMICAL ELEMENTS
Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

CHEMICAL GROUTING
Polyurethane Foam--A Useful New Borehole Grout,
W77-05150 1011 2G

Testing and Grouting Leaking Joints,
W77-06986 1014 8G

CHEMICAL HAZARDS
Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

CHEMICAL INDUSTRY
The Effluent Treatment Plant of BASF AG in Ludwigshafen/Rhine,
W77-00742 1002 5D

Effluent Treatment in the Paint and Surface Coating Manufacturing Industry,
W77-00764 1002 5D

Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Incineration of Industrial Wastes,
W77-02596 1006 5E

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

Environmental Impact of Chemicals,
W77-02836 1006 5G

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Tall Order in Waste Treatment,
W77-03602 1008 5D

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

Evaluation of Wastewater Treatment Facilities.
W77-03619 1008 5D

Closed-Cycle Utilization of Fermentation Industry Effluents (Zamknutyi tsikl ispol'zovaniya otkhodov gidroliznogo proizvodstva),
W77-05689 1012 5D

Toxic Pollutant Effluent Standards for Benzidine.
W77-08359 1017 5G

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Organic Chemicals Manufacturing Point Source Category, Proposed Effluent Guidelines and Standards.
W77-10472 1021 5G

CHEMICAL INJECTION (FERTILIZERS)
Fertilizer and Chemical Injection,
W77-12535 1024 3F

CHEMICAL INTERACTIONS
Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

CHEMICAL MODELING
A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

CHEMICAL MONITORING PROGRAMS
A Chemical Monitoring Program of the Explosion Products in Underwater Explosion Tests,
W77-09242 1019 5G

CHEMICAL OCEANOGRAPHY
Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

CHEMICAL OXIDATION
Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

CHEMICAL OXYGEN DEMAND
A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

Waste Water Treatment at SCP (Semichemical Pulp), CGP (Chemigroundwood Pulp) Mills,
W77-00329 1001 5D

Precision Aquarator Speeds COD Determination,
W77-00605 1002 5A

Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

Determination of Chemical Oxygen Demand (Die Bestimmung Der Chemischen Oxidierbarkeit),
W77-02380 1005 5A

The Catalytic Wet Oxidation of Strong Waste Waters,
W77-02597 1006 5D

Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

Intermittent Sand Filtration of Household Wasterwater,
W77-03452 1007 5D

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Inhibiting Nitrification in Wastewater Treatment Plants,
W77-03573 1007 5D

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

Recovering Polyvinyl Alcohol from Waste Water-By Coagulating with Borate and Inorganic Salt in Presence of Quaternary Ammonium Compound to Reduce Water Content of Gel.
W77-04460 1009 5D

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal,
W77-04641 1010 5D

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

Quality Aspects of Urban Stormwater Runoff,
W77-04733 1010 5B

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

New Pre-Treatment Method Without Chemical Reagents for Organic Wastes of Wine Distilleries (Nouveau procede de pre-traitement rejets des d'origine organique destine aux distilleries ou autres sans apport d'adjuvants),
W77-05503 1011 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Lime Treatment of Sulfite Pulp Mill Bleachery Effluent (Cisteni odpadnich vod z beleni sulfitove buniciny vapnem),
W77-05693 1012 5D

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

Study of the Oxygen Demand in Biological Waste Water Treatment and Incineration Processes (Valutazione dell'02 consumato nei processi biologici di trattamento acque nei processai di incenerimento),
W77-06155 1013 5D

Algae Separation from Oxidation Pond Effluents,
W77-06184 1013 5D

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

The Effects of Chili Waste on an Activated Sludge Process,
W77-09141 1019 5D

A Thermal Controller for the Short COD Determination,
W77-09415 1019 5A

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Treatment of Organic Waste Water by Tower Type Packed Biofilter (Jutento shiki rosho ho ni okeru kaibunshiki shori no joka sokudo),
W77-11715 1023 5D

Transverse-Grid Water Quality Analyses Over the Szob-Budapest Danube Section (Keresztmetszethalos vizminoseg vizsgalatok a Duna Szob-Budapest kozotti szakaszan),
W77-11731 1023 5A

Problems Related to Water Quality Over the Danube Section Between Rajka and Esztergom (A Rajka-Esztergom kozotti Duna-szakasz vizminosegi problemai),
W77-11738 1023 5B

The Technical-Economic Model of Water Quality in the Sajo River (A sajo vizminosegi muszaki-kozgazdasagi modellje),
W77-12413 1024 5G

Metering Total Oxygen Demand,
W77-12416 1024 5A

Effect of Residence Time on Fixed Film Reactor Performance,
W77-12427 1024 5D

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Deposits Formed by Subglacial Precipitation of CAC03,
W77-00658 1002 2K

Effluent Treatment,
W77-00697 1002 5D

Effects of Selected Ions on the Removal of Chrome (III) Hydroxide,
W77-00744 1002 5D

Elimination of ZN from Wastewater of Rayon Plants by Precipitation,
W77-00757 1002 5D

Removing Iron from Acid Waste Liquids by Oxidation - at Controlled PH by Addition of Base, Giving Easily Separated Precipitation for Large-Scale Use.
W77-00761 1002 5D

Precipitation of Phosphate from Solution Using Aluminum Salt,
W77-00871 1002 5D

Preliminary Study of Pulp Mill Effluent Decolorization by the Method of Simultaneous Coagulation (Wstepne badania odbarwiania sciekow celulozowych metoda koagulacji symultanicznej),
W77-01650 1004 5D

Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Interactions of Ferric and Ferrous Irons and Organic Matter in Water Environment,
W77-02389 1005 5B

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

The Optimization of Chemical Precipitation: Flocculation of Municipal Waste Waters,
W77-05324 1011 5D

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Calcium Carbonate Precipitation Kinetics, Part I, Pure System Kinetics,
W77-10087 1020 5F

Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

Well Redevelopment: Part 1,
W77-12673 1024 8B

Waste Water Treatment Method,
W77-12948 1024 5D

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

Chemical Composition and Food Value of Some Members of Freshwater Zooplankton in Ponds of the Southern Moldavian SSR, (In Russian),
W77-00509 1001 2H

Sodium Aluminate Improves Sludge Properties,
W77-00588 1002 5D

Variable Nature of Chemical Composition of Sewage Sludges,
W77-00602 1002 5A

Physical and Chemical Characteristics of Sediments Originating from Missouri Valley Loess,
W77-00811 1002 5B

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

Zinc Speciation and Toxicity to Fishes,
W77-01298 1003 5C

Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

Toxicity Relationships to Copper Forms in Natural Waters,
W77-01304 1003 5C

Transformation of Chemical Substances in Water Bodies and During Water Treatment as a Hygienic Problem, (In Russian),
W77-01552 1004 5F

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

The Effect of Ammonia and Ammonia-Sulfur Solutions on Nitrification Rates and Chemical Properties of a Calcareous Soil,
W77-02276 1005 2G

Phosphorus Removal with Alum from Secondary Effluent,
W77-02346 1005 5D

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-02808 1006 5C

Data on Selected Lakes in Washington, Part 5,
W77-03350 1007 7C

Adsorption of C14-DDT to Particle Surfaces,
W77-03658 1008 5B

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

The Chemical Characteristics of the City of Winnipeg Waste Water,
W77-07047 1014 5A

A Survey of the Physical and Chemical Limnology of Lake Titicaca,
W77-07460 1015 5C

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

The Age of Groundwater in the Lincolnshire Limestone, England and its Relevance to the Flow Mechanism,
W77-09107 1019 2F

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

Collection Systems.
W77-11500 1022 5D

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

CHEMICAL REACTION

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

CHEMICAL REACTIONS

Chemical Weathering of Glauconite,
W77-00289 1001 2K

Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Transformation of Chemical Substances in Water Bodies and During Water Treatment as a Hygienic Problem, (In Russian),
W77-01552 1004 5F

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Chlorination Reactions of Fulvic Acids in Natural Waters,
W77-09741 1020 5F

Effect of Sorbed Organics on the Efficiency of Ammonia Removal by Chloramine-Carbon Surface Reactions,
W77-09902 1020 5D

Reactions of Metal Ions at Surfaces of Hydrous Iron Oxide,
W77-10566 1021 2K

Preliminary Investigations in Water Treatment with High Energy Electron Beams,
W77-10614 1021 5D

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

Process of Dewatering Sewage Sludge,
W77-12952 1024 5D

Process for Dewatering Sewage Sludge,
W77-12953 1024 5D

CHEMICAL RECOVERY

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

NSSC Recovery Process Eliminates Five-Day BOD 5 Load and Recovers Chemicals,
W77-04826 1010 5D

CHEMICAL SEALANTS

Chemical and Vegetative Stabilization of Soils,
W77-08512 1017 8D

CHEMICAL STIMULI

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

CHEMICAL STRATIFICATION

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

CHEMICAL THERMOMETERS

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

CHEMICAL TREATMENT

Comparative Assessment of the Effectiveness of Certain Methods Making Industrial Effluents Noncarcinogenic, (In Russian),
W77-03488 1007 5D

Chemical Treatment of Water from a Surface Treatment Plant (Epuration par voie chimique des eaux residuaires d'un atelier de traitment de surface),
W77-05522 1011 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Purifying Water,
W77-07061 1014 5D

Upgrading Biological Sewage Treatment Plants Today,
W77-07062 1014 5D

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Techniques for Purifying Oily Waste Water,
W77-07213 1015 5D

Phosphorus is Removed at Low Cost,
W77-07915 1016 5D

Biochemical and Physical-Chemical Treatment of Weak Municipal Waste Water,
W77-07916 1016 5D

Controlling Sludge Bulking.
W77-07921 1016 5D

Physico-Chemical Treatment of Sewage and the Coleshill Project,
W77-07922 1016 5D

Evaluation of Process Design Parameters for Phosphorus Removal from Domestic Waste Waters by Chemical Clarification,
W77-09602 1020 5D

CHEMICAL TREATMENT

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

Phosphate Removal Studies at Barrie Water Pollution Control Centre,
W77-10602 1021 5D

Secondary Treatment.
W77-11494 1022 5D

Advanced Treatment.
W77-11495 1022 5D

CHEMICAL TREATMENT (SEWAGE)

Chemical Treatment of Sewage,
W77-09892 1020 5D

CHEMICAL WASTES

Effectiveness of Wastewater Treatment at the Shostka 50th Anniversary of the USSR Chemical Plant, (In Russian),
W77-00351 1001 5D

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

Effluent Treatment,
W77-00697 1002 5D

Process for Gasifying Carbonaceous Solids and Removing Toxic Constituents from Aqueous Effluents,
W77-00751 1002 5D

Chemical Characteristics and Acute Toxicity of Foam on Two Aerated Lagoons,
W77-00752 1002 5C

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Why Industrial Wastewater Pretreatment,
W77-00763 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

Deep Well Wastes May be Water Hazards.
W77-01083 1003 5B

Chromium Removal and Recovery Process,
W77-01220 1003 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

Dynamics of the Content of Some Organic Toxic Substances in Plants Irrigated with Effluents of the Coal-Tar Chemical Industry, (In Russian),
W77-02263 1005 5C

Phosphorus Removal with Alum from Secondary Effluent,
W77-02346 1005 5D

Environmental Aspects of Chemical Use in Printing Operations, (September 22-24, 1975, King of Prussia, PA.), Conference Proceedings.
W77-02553 1005 5C

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Investigation of Selected Potential Environmental Contaminants: Haloethers,
W77-02643 1006 5C

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Those Nasty Phosphatic Clay Ponds,
W77-03596 1007 5G

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

Current Problems of Hygienic Standardization of New Chemical Substances, (In Russian),
W77-04015 1008 5C

Butadiene Limitations, Guidelines and Standards; Amendment.
W77-04368 1009 5G

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

Time Bomb in the Mediterranean,
W77-04919 1010 5G

BOD5 Decreased to Less Than 10 MG/Liter With Carbon Adsorption System,
W77-05496 1011 5D

Purification of Resin-Forming Effluent Waters for Bakelite Manufacture--Involves Condensation to Useful Glue Resin with Ammonia Then Sodium Hydroxide,
W77-05497 1011 5D

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Purifying Waste Liquor-From, E.G., Sodium Carbonate Production, Ammonia Regeneration, Brine Purification, Etc.
W77-05499 1011 5D

New Pre-Treatment Method Without Chemical Reagents for Organic Wastes of Wine Distilleries (Nouveau procede de pre-traitement rejets des d'origine organique destine aux distilleries ou autres sans apport d'adjuvants),
W77-05503 1011 5D

Removal of Organic Impurities from Industrial Waste Water - by Adsorption with Organo Silicon. Compound Modified with Alkaline Solution of Shungite,
W77-05513 1011 5D

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Monsanto Company V Illinois Pollution Control Board (Requirements for Petitioning for Permanent Variance from Water Pollution Regulations Pertaining to Mercury Discharge into Public Sewer System).
W77-06068 1012 6E

Fast Payout from In-Plant Recovery of Spent Solvents,
W77-06210 1013 5D

The Biodegradation of Polyethylene Glycols by Sewage Bacteria,
W77-06211 1013 5D

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

Polychlorinated Biphenyls.
W77-06554 1013 5C

The Evaluation of Toxic Effects of Chemicals in Fresh Water by Using Frog Embryos and Larvae,
W77-07132 1015 5C

The Development of Regional Industrial Waste Processing Centres,
W77-07205 1015 5D

Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

Hygienic Criteria of the Complex Action of Chemical Environmental Pollutants, (In Russian),
W77-08029 1016 5G

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Organic Chemicals Manufacturing Point Source Category, Proposed Effluent Guidelines and Standards.
W77-10472 1021 5G

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

Sludge Treatment, Utilization, and Disposal,
W77-10647 1021 5D

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

E I Dupont De Nemours and Company v Train (Review of Effluent Limitations for Chemical Industry).
W77-11201 1022 6E

Cyanide Mobility in Soils,
W77-11619 1023 5B

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Treatment of Aqueous Waste Streams.
W77-12458 1024 5D

The Effects of NTA on the Chlorine Demand of Various Types of Water,
W77-12480 1024 5C

The Toxicity of Ammonium Molybdate to Marine Invertebrates,
W77-12653 1024 5C

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

CHEMICAL WEATHERING

Chemical Weathering of Glauconite,
W77-00289 1001 2K

CHEMICALS

Investigation of Selected Potential Environmental Contaminants, Chlorinated Paraffins,
W77-01238 1003 5C

Symposium on Structure-Activity Correlations in Studies of Toxicity and Bioconcentration with Aquatic Organisms.
W77-01310 1003 5C

Surfactant Structure and Aquatic Toxicity,
W77-01311 1003 5A

Predicting a Bioconcentration Potential of Organic Chemicals in Fish from Partition Coefficients,
W77-01312 1003 5C

Structure-Activity Relationships in Fish Toxicology,
W77-01313 1003 5C

Structure-Activity Relationships of DDT Analogs in a Non-Target Organism. Lethal and Sublethal Effects of Brook Trout Fingerlings,
W77-01315 1003 5C

Mathematical Models to Describe the Time/Space Distribution of Chemicals in a Water System,
W77-01317 1003 5B

A Comparison of Methods for the Analysis of the Relationship Between Chemical and Biological Properties of Chemicals,
W77-01319 1003 5A

Calculation of Partition Coefficients Useful in the Evaluation of the Relative Hazards of Various Chemicals in the Environment,
W77-01322 1003 5C

Panel 'C' - Toxic Substances,
W77-02054 1004 6G

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Direct Physicochemical Treatment with Ozone,
W77-02747 1006 5D

Environmental Impact of Chemicals,
W77-02836 1006 5G

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

1974 - A Year of Transition,
W77-02840 1006 5G

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Environmental Protection Agency: Inorganic Chemicals Manufacturing Point Source Category.
W77-04377 1009 5G

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

Spill Penalties Draw Criticism,
W77-08973 1018 6E

Toxic Pollutant Effluent Standards for Aldrin/Dieldrin, DDT, Endrin, and Toxaphene,
W77-08983 1018 5G

Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

Problems of Managing Geothermal Waters for Irrigation,
W77-12735 1024 3C

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

CHEMICALS INDUSTRY
Water Pollution Control Act of 1972, Economic Impacts, Chemical and Allied Industries,
W77-01960 1004 5G

CHEMILUMINESCENCE
Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

CHEMISORPTION BY RUBBER
Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

CHEMISTRY
Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

CHEMISTRY OF PRECIPITATION
Acid Precipitation,
W77-02800 1006 2B

Precipitation Chemistry Studies at Lake George: Acid Rains,
W77-03098 1007 5A

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

Atmospheric Sulfate Additions and Cation Leaching in a Douglas Fir Ecosystem,
W77-08822 1018 2K

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Precipitation Nutrients in the Open and Under Two Forests in Minnesota,
W77-11831 1023 2K

CHEMOAUTOTROPHS
Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

CHEMOAUTROPHIC BACTERIA
A Yearly Cycle of Changes in Dynamics of Production of the Chemoautotrophic Bacteria in Bottom Sediments of a Water Body,
W77-11505 1023 5C

CHEMORECEPTION
Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

CHEMORECEPTORS (FISH)
The Effect of Sub-Lethal Lead Concentrations on the Chemoreceptors of Two Fresh Water Fish Species, (In German),
W77-02383 1005 5C

CHEMOSENSORY RESPONSE
Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

CHEMOSTAT
Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

CHENA RIVER
A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

CHERNOZEMS
The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Effect of Irrigation on Some Properties of Southern Chernozems, (In Russian),
W77-02889 1006 2G

The Aeration Conditions of Southern and Ciscaucasian Chernozems Under Irrigation, (In Russian),
W77-02927 1006 2G

Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

Generalized Dependence of Moisture Pressure and Conductivity on Moisture Content in Uniform Mechanical Soil Fractions, (In Russian),
W77-06369 1013 2G

Effects of Sodium Sulfate and Sodium Carbonate Solutions on Chemical and Physical Properties of a Chernozem Soil,
W77-11650 1023 2K

Constitution of Southern Calcareous Chernozems Depending on their Density, (In Russian),
W77-12469 1024 2G

CHERRY CREEK (CO)
Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

CHESAPEAKE BAY
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

Model for a Study,
W77-00971 1002 2L

Nitrogen Fixation in the Rhode River Estuary of Chesapeake Bay,
W77-01059 1003 5C

Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay,
W77-01061 1002 5C

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-02808 1006 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-02820 1006 5C

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay,
W77-03556 1007 5B

The Role of Tin in Bacterial Methylation of Mercury,
W77-03668 1008 5B

Bacterial Mobilization of Mercury in Chesapeake Bay,
W77-03670 1008 5C

Petroleum-Degrading Achlorophyllous Alga Prototheca Zopfi,
W77-04062 1008 5A

Some Effects of Petroleum on Estuarine and Marine Micro-Organisms,
W77-04063 1008 5C

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Bacteriology of Chesapeake Bay Surface Waters,
W77-07382 1015 5C

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Citizen Attitudes Toward Management of the Chesapeake Bay,
W77-07796 1016 6B

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

Effects of Economic Development on Water Resources,
W77-09051 1018 5G

Remote Sensing of Submerged Aquatic Vegetation in the Lower Cheasapeake Bay,
W77-09468 1019 2L

The Use of Wetlands as Nutrient Removal Systems,
W77-09520 1019 5G

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-11906 1023 2L

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Inventory of Sewage Treatment Plants for Chesapeake Bay,
W77-12496 1024 5D

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Upper Bay Survey Vol. IV. Numerical Modeling,
W77-12786 1024 5B

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

CHESTNUT CREEK (VA)
Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

CHESTNUT CREEK (VIRGINIA)
Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

CHESTNUT SOIL *PERMEABILITY
Water Permeability of Dark-Chestnut Soils of the Kustanai Oblast, (In Russian),
W77-00501 1001 2G

CHESTNUT SOILS
Light-Chestnut Long-Irrigated Soil of the Sharur Plain, (In Russian),
W77-00510 1001 2G

CHICAGO-CALUMET HARBOR SHORELINE
Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

CHICAGO (ILL)
AWT Plant Begins Operations.
W77-00055 1001 5D

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

A Hydrometeorological Research Program,
W77-10658 1021 2B

CHICAGO REGION (ILL)
Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

CHICKAHOMINAY RESERVOIR (VA)
Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

CHICKASHA (OKLA)
Remote Sensing Techniques for Prediction of Watershed Runoff,
W77-08075 1016 7B

CHICOPEE RIVER (MA)
Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

CHIEF JOSEPH DAM
Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

CHILE
Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Diet of Hippoglossina Macrops (Steindachner) in Mejillones (Pisces, Bothidae), (IN Spanish),
W77-00502 1001 2L

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

Solar Distillation in Chile,
W77-02862 1006 3A

Phytoplankton Ecology in Valparaiso Bay: III. Phytoplankton from 1972-73, (In Spanish),
W77-03200 1007 5C

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

CHILE (SOILS)
Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

CHILI WASTEWATERS
The Effects of Chili Waste on an Activated Sludge Process,
W77-09141 1019 5D

CHINA
The Role of Silt in Eradication of Oncomelaniid Snails in Grassy Beaches, (In Chinese).
W77-02245 1005 5G

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

CHINA CLAY
The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

CHINA LAKE (MAINE)
Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

CHINCOTEAGUE BAY
Assateague Ecological Studies.
W77-03381 1007 5C

CHINOOK
Energy Regime and Water Balance of an Alpine Dwarf Shrub Community During a Foehn Period, (In German),
W77-11089 1022 2I

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

CHINOOK FINGERLINGS
Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

CHINOOK SALMON
Experimental Nitrite Toxicity in Rainbow Trout and Chinook Salmon,
W77-02581 1006 5C

Relation of Water Temperature to Flexibacter Columnaris Infection in Steelhead Trout (Salmo Gairdneri) Coho (Oncorhynchus Kisutch) and Chinook (O. Tshawytscha) Salmon,
W77-03048 1006 5C

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

Influence of Dissolved Atmospheric Gas on Swimming Performance of Juvenile Chinook Salmon,
W77-05084 1010 5C

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

CHINOOK SALMON FINGERLINGS
Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

CHIPPEWA FALLS (WIS)
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

CHIPPEWA FLOWAGE (WI)
Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

CHIPPEWA FLOWAGE (WIS)
Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

CHIPPEWA RIVER (WIS)
Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

CHIPUXET AQUIFER (RI)
An Electric Analog and Digital Computer Model of the Chipuxet Ground Water Aquifer, Kingston, Rhode Island,
W77-09637 1020 2F

CHIRCHIK RIVER
Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

CHIRONOMIDAE
Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

CHIRONOMUS-PLUMOSUS
Studies on the Bottom Fauna of Five Lakes in Southern Hokkaido (Lakes Hikotsu-Ko, Kuttara-Ko, Toya-Ko, Hangetsu-Ko and Oshima O-Numa, (In Japanese),
W77-01037 1002 5C

CHIRONOMUS TENTANS
Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

CHLAMYDOMONAS
The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures: II. Tertiary Treatment Potential of Algae, (In Dutch),
W77-00110 1001 5D

Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

CHLAMYDOMONAS SP.
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

CHLAMYS ISLANDICA
The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

CHLOR-ALKALI PLANT
Review of Environmental Control of Mercury in Japan,
W77-02761 1006 5G

CHLORAMINE
Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

CHLORAMINES
Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

CHLORAMPHENICOL
Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

CHLORDANE
Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

CHLORELLA
The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-10729 1021 5C

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

Extraction of Iron from Water by Chlorella Vulgaris and Scenedesmus Quadricauda,
W77-11303 1022 5C

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

CHLORELLA PYRENOIDOSA
The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

CHLORELLA PYRENOIODOSA
The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

CHLORIDES
Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

Effect of Yeast and Cobalt Chloride in Increasing Survival Rate of Hatchlings of Heteropneustes Fossils (Bloch),
W77-00632 1002 2I

Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

Hvgienic Standardization of Octylic Stabilizers of Polyvinylchloride in Water Bodies, (In Russian),
W77-02264 1005 5G

Chlorides in the Kraft Recovery System. II. Process and Equipment Aspects on a Closed Bleached Kraft Mill,
W77-02560 1005 5D

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

New Automated Colorimetric Method for the Determination of Chloride Using Chromotropic Acid,
W77-02812 1006 5A

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Nitrate and Chloride in Ground Water Under Irrigated Agriculture in Central Wisconsin,
W77-06313 1013 5B

Effect of Some Chemical Elements on the Accumulation of Cesium-137 in Freshwater Fish, (In Russian),
W77-08322 1017 5C

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Nitrate Leakage from Soils Differing in Texture and Nitrogen Load,
W77-09428 1019 2G

CHLORIDES

Cation-Exchange Capacity of Acid Soils Using Aluminum Chloride and Barium Chloride-Triethanolamine,
W77-09652 1020 2G

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

Sampling the Unsaturated Zone in Irrigated Field Plots,
W77-11400 1022 2G

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

CHLORINATED BIPHENYLS

Chlorine Combining with Sewage,
W77-08571 1017 5D

CHLORINATED GUAIACOLS

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

CHLORINATED HYDROCARBON

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

CHLORINATED HYDROCARBON INSECTICIDES

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

CHLORINATED HYDROCARBON PESTICIDES

Associations of Chlorinated Hydrocarbons with Fine Particles and Humic Substances in Nearshore Surficial Sediments,
W77-00086 1001 5A

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

Of PCB PPMS from GE and A Snafu from EPA and DEC,
W77-00978 1002 5A

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Chlorinated Hydrocarbons in Coastal Marine Ecosystems,
W77-03661 1008 5C

Trends of PCB and DDT in Fish and Aquatic Birds,
W77-03677 1008 5B

The Distribution of Short-Chain Halogenated Aliphatic Hydrocarbons in Some Marine Organisms,
W77-04051 1008 5C

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Evaluation of XAD-2 for Multiresidue Extraction of Organochlorine Pesticides and Polychlorinated Biphenyls from Natural Waters,
W77-05692 1012 5A

Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

PCB Contents in the Muscle of Marine Animals Collected in the Sea near Hakodate (In Japanese),
W77-07315 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewater,
W77-12139 1023 5D

Determination of Organochlorine Pesticides in the Tissue of the Black Mullet (Mugil cephalus) and the Silver Mullet (Mugil curema),
W77-12197 1023 5B

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

Effects of Residues of the Polychlorinated Bipheny! Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

Contribution to the Study of Drinking Water, Danube Water and Biocenose Contamination with Chlorinated Insecticides,
W77-12640 1024 5C

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

Polychlorinated Biphenyls in the Hudson River (Hudson Falls-Fort Edward, New York State),
W77-12853 1024 5B

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

CHLORINATED HYDROCARBON PESTICIES

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

CHLORINATED HYDROCARBONS

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Investigation of Selected Potential Environmental Contaminants, Chlorinated Paraffins,
W77-01238 1003 5C

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Determination of Volatile Halogenated Hydrocarbons in Water by Gas Chromatography,
W77-03787 1008 5A

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

CHLORINATED ORGANIC COMPOUNDS

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Process for Eliminating Reactive Chlorinated Organic Compounds from Aqueous Solutions,
W77-08021 1016 5D

CHLORINATED PARAFFINS

Investigation of Selected Potential Environmental Contaminants, Chlorinated Paraffins,
W77-01238 1003 5C

CHLORINATED SEWAGE EFFLUENT

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

CHLORINATED WASTEWATER

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

CHLORINATION

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Effectiveness of Continuous Chlorination of Well Water by Dosage Cartridges in Transcarpathia, (In Russian),
W77-02256 1005 5F

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

The Influence of Carbon-Nitrogen Ratio on the Chlorination of Microbial Aggregates,
W77-03414 1007 5D

Model Studies in Aqueous Chlorination: The Chlorination of Phenols in Dilute Aqueous Solutions,
W77-03458 1007 5A

Effect of Water Chlorination Upon Levels of Some Polynuclear Aromatic Hydrocarbons in Water,
W77-03459 1007 5F

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Apparatus for Controlling Marine Fouling of Salt Water Coolant Heat Exchangers, Piping Systems, and the Like,
W77-04956 1010 8G

Adsorption as a Protective Mechanism for Waterborne Viruses,
W77-04997 1010 5F

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Power Plants, Chlorine and Estuaries,
W77-05491 1011 5C

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Bleach Modifications to Reduce Pollutants,
W77-06225 1013 5G

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

How to Deal with Pitting and Corrosion.
W77-06869 1014 8G

The Current Role of Wastewater Disinfection,
W77-07064 1014 5D

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-07134 1015 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Ozonation in a Better Perspective,
W77-07293 1015 5D

Studies on Virus Inactivation by Chlorine During Water Disinfection, (In German),
W77-07595 1015 5F

Kinetics of Breakpoint Chlorination and Disinfection,
W77-08095 1016 5D

Ozone and Chlorine in Waste Water Disinfection,
W77-08536 1017 5D

Chlorobiphenyls and PCB's: Formation During Chlorination,
W77-08538 1017 5A

Chlorine Combining with Sewage,
W77-08571 1017 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

Chlorination Reactions of Fulvic Acids in Natural Waters,
W77-09741 1020 5F

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Nitrification in a Chlorinated Activated Sludge Culture,
W77-09851 1020 5D

Hygienic Effectiveness of Disinfection of Sewage After its Mechanical Treatment (Gigienicheskaia effektivnost' obezzarazhivaniia bytovykh stochnykh vod, proshedshikh mekanicheskuiu ochistku),
W77-10605 1021 5D

Evaluation of the Effectiveness of Dehelmintization of Waste Water During Mechanical Treatment at Smolensk (Otsenka effektivnosti degel' mintizatskii stochnykh vod pri mekhanicheskoi ochistke v Smolenske),
W77-10636 1021 5D

Chlorination Seems Best for Removing Suspended Solids from Lagoon Effluents,
W77-10652 1021 5D

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Physiological Responses of Estuarine Organisms to Chlorine,
W77-11283 1022 5C

Effects of Chlorine on the Copepod, Acartia Tonsa,
W77-11308 1022 5C

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

The Enhancement of High-Rate Disinfection by the Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11491 1022 5D

Disinfection and Odor Control.
W77-11497 1022 5D

Studies on Disinfection and Chemical Oxidation with Ozone and Chlorine in Water Reclamation,
W77-11572 1023 5F

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

Physical-Chemical Treatment System for Sewage.
W77-11701 1023 5D

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

Disinfection, (Literature Review),
W77-11730 1023 5D

Chlorination Disinfection Study at Provincetown Sewage Treatment Plant.
W77-11745 1023 5D

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants: Volume I - Grandville, Michigan,
W77-11762 1023 5D

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Treatment of Aqueous Waste Streams.
W77-12458 1024 5D

The Effects of NTA on the Chlorine Demand of Various Types of Water,
W77-12480 1024 5C

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

CHLORINATION PRODUCTS

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

CHLORINE

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

Decontamination of Water Contaminated with Polycyclic Aromatic Hydrocarbons (PAH). I. Action of Chlorine and Ozone on PAH Dissolved in Doubly Distilled and in De-Ionized Water,
W77-03369 1007 5D

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

Acute Toxicity of Residual Chlorine in Wastewater to Coho Salmon (Oncorhynchus Kisutch) and Some Resultant Hematologic Changes,
W77-04027 1008 5C

Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Power Plants, Chlorine and Estuaries,
W77-05491 1011 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

Ozonation of Reclaimed Water.
W77-06141 1013 5D

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Ozone and Chlorine in Waste Water Disinfection,
W77-08536 1017 5D

Chlorine Combining with Sewage,
W77-08571 1017 5D

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Photochemical Dechlorination of Water Supply for Fish Tanks with Commercial Water Sterilizers,
W77-08842 1018 5F

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-09492 1019 5C

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Physiological Responses of Estuarine Organisms to Chlorine,
W77-11283 1022 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Effects of Chlorine on the Copepod, Acartia Tonsa,
W77-11308 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

Effects of Stable Chlorine-Containing Organics on Aquatic Environments,
W77-11503 1023 5C

Studies on Disinfection and Chemical Oxidation with Ozone and Chlorine in Water Reclamation,
W77-11572 1023 5F

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

Chlorine Dissipation and Toxicity Presence of Nitrogenous Compounds,
W77-12042 1023 5C

Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

The Influence of Cations on Chlorine Toxicity,
W77-12249 1023 5C

Long-Term Biotoxicity of Chlorine Species to Copepod Populations,
W77-12260 1024 5C

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

The Effects of NTA on the Chlorine Demand of Various Types of Water,
W77-12480 1024 5C

Bromine Chloride: An Alternative Disinfectant to Chlorine,
W77-12634 1024 5F

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

CHLORINE DIOXIDE

Use of Chlorine Dioxide-Alkali for High-Yield Pulping,
W77-01664 1004 5D

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

CHLORINE HYDROLYSIS

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

CHLORINE RESIDUALS

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

CHLORINE STRESS

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

CHLOROBIPHENYL

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

CHLOROBIPHENYLS

Chlorobiphenyls and PCB's: Formation During Chlorination,
W77-08538 1017 5A

CHLOROCOCCAL ALGA

Development of the Chlorococcal Alga Coelastrum Microporum Naeg. in Fish-Breeding Ponds, (In Russian),
W77-02248 1005 5C

CHLOROCOCCUM

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

CHLOROFORM

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

CHLOROPHENOLS

Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Gas Chromatography-Mass Spectrometry of Chlorophenols in Spent Bleach Liquors,
W77-04806 1010 5A

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

CHLOROPHOS

Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

CHLOROPHYL

The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

CHLOROPHYLL

Fort River Ecosystem: Productivity of the Periphyton Component,
W77-00149 1001 5C

Surface Nutrients, Chlorophyll-A and Phaeopigment in Some Scottish Sea Lochs,
W77-00182 1001 5C

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Plankton Communities of Three Mazurian Lakes and Chlorophyll Content in Their Phytoplankton, (In Polish),
W77-01029 1002 5C

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

Chlorophyll Degradation Product in Sediments of Lake Tega-Numa, (In Japanese),
W77-01604 1004 5C

Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Some Aspects of Municipal Overflow Reservoir Monitoring, (In Swedish),
W77-02228 1005 5A

Production of Phytoplankton of Lake Baikal in the Region of Listvennichnoye Village, (In Russian),
W77-02253 1005 5C

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Relationships of Phytoplankton Biomass with Soluble Nutrients, Primary Production, and Chlorophyll a In Lake Erie, 1970,
W77-05235 1011 5C

The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

Studies on the Algal Populations of the Saale River Near Jena: II. Comparison of the Seasonal Population Dynamics Above and Below the City, (In German),
W77-05606 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Pigment Cycle in a North German Lake,
W77-07459 1015 5C

Satellite Observations of Water Quality,
W77-07554 1015 5A

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Hydrooptical and Hydrobiological Investigations of the Central Parts of the Reservoir of the Krasnoyarsk Hydroelectric Station, (In Russian),
W77-09136 1019 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

Activity of Phytoplankton Excreted by Fish,
W77-10642 1021 5C

Studies on the Mechanisms of Red Tide Occurrence in Hakata Bay: II. General Features of Red Tide Flagellate, Heterosigma sp., (In Japanese),
W77-10740 1021 5C

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

Primary Production and Chlorophyll Content in the Baltic Sea: Part II. Chlorophyll-A Distribution,
W77-12591 1024 5C

Hydrobiological Research Related to Large Scale Experimental Pollution Studies in the Rance Estuary: Primary Production in Relation to Certain Physicochemical Parameters, (In French),
W77-12975 1024 5C

CHLOROPHYLL DETERMINATION

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

CHLOROPHYLLIDE

The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

CHLOROPHYTA

Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Cladophora in the Great Lakes,
W77-00928 1002 5C

Interactions of Ferric and Ferrous Irons and Organic Matter in Water Environment,
W77-02389 1005 5B

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

Primary Production of Green Filamentous Algae from the Kiev Reservoir, (In Russian),
W77-04070 1008 5C

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

Ultrastructural Localization of Lead in Stigeoclonium Tenue (Chlorophycea, Ulotrichales) as Demonstrated by Cytochemical and X-ray Microanalysis,
W77-05230 1011 5C

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

Effect of DDT on Photosynthesis of Selenstrum Capricornutum,
W77-07444 1015 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

Experimental Studies on Changing Algal Populations from Blue-Greens to Greens,
W77-10269 1021 5G

Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

Activity of Phytoplankton Excreted by Fish,
W77-10642 1021 5C

Effect of Tetramethyl Lead on Freshwater Green Algae,
W77-11522 1023 5C

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

CHLOROPLASTS

Effect of the Groundwater Level and Soil Moisture Content on Photophosphorylation of Barley, Wheat and Oat Chloroplasts, (In Belorussian),
W77-04884 1010 2I

CHLOROURACIL

Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

CHLORPYRIFOS

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

CHOPTANK RIVER (MD)

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

CHORELLA

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

CHORION

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

CHOROMYTILUS MERIDONALIS

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

CHOWAN RIVER-ALBEMARLE SOUND (NC)

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

CHOWAN RIVER ESTUARY (NC)

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

CHOWAN RIVER (NC)
Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

Nature and Impact of Stream Inputs on a Watershed Basis,
W77-11980 1023 5B

CHROMATE
Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

CHROMATOGRAPHY
Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

Lipid Transformation in Seawater by Oil-Oxidizing Microorganisms, (In Russian),
W77-01030 1002 5A

Hydrocarbon Determination in Waste Waters by Means of Channel Thin Layer Chromatography, (In Italian),
W77-01573 1004 5A

Significance of Suspended Load and Bottom Deposits in Self-Purification of the Selenga River from Petroleum Products, (In Russian),
W77-01606 1004 5G

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

Identification and Determination of Phthalate Esters in River Water by High-Performance Liquid Chromatography,
W77-04805 1010 5A

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

Characterization of Soluble Organic Matter in Leachate,
W77-07039 1014 5A

Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

Determination of Morestan in Water, Soil, and Cucumbers by Thin-Layer Chromatography, (In Russian),
W77-07688 1016 5A

Development of a Column Chromatography Method for Field of Pre-Concentration of Trace Metals with Application to the Haw-Cape Fear Rivers, N.C.,
W77-08299 1017 5A

Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

High Speed Liquid Chromatographic Analysis of Cobalamin Productivity and Distribution in Activated Sewage Sludge Treatment,
W77-08621 1018 5A

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Chromatographic Investigation of Inositol Phosphate Esters in Lake Waters,
W77-11477 1022 5A

Development of High Pressure Liquid Chromatographic Techniques,
W77-11908 1023 5A

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

Thin-Layer Chromatographic Determination of Cadmium in Water and Biological Media, (In Russian),
W77-12970 1024 5A

CHROMIUM
Effects of Selected Ions on the Removal of Chrome (III) Hydroxide,
W77-00744 1002 5D

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Chromium and Mercury in a Soil After 80 Years of Treatment with Urban Sewage Water, (In German),
W77-01568 1004 2K

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Investigation of Commercial Chrome-Tanning Systems: Part VI. Full-Scale Trials of Chrome Liquor Recycling and the Importance of Salt Concentration,
W77-02594 1006 5D

Medical and Biologic Effects of Environmental Pollutants. Chromium.
W77-02635 1006 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Chromium Recovery from Sludges Produced from Chromate-Inhibited Cooling Water,
W77-02874 1006 5D

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

IWS Low Chrome Effluent Dyeing,
W77-06229 1013 5D

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Behavior of Chromium in Soils: II. Hexavalent Forms,
W77-09283 1019 2G

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Behavior of Chromium in Soils: I. Trivalent Forms,
W77-09432 1019 2G

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

CHROMIUM-PLATING RINSE WATER

Method and Apparatus,
W77-06446 1013 5D

CHROMOSOME ABNORMALITIES

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

CHROMOSOME MUTATIONS

Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

CHROMOSOMES

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

CHRONIC EFFECTS

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

CHRONIC HIGH GAS SATURATION

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

CHRONIC TOXICITY

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

CHRYSOPHYTA

Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

CHRYSOTILE

Asbestos in Potable Water,
W77-06016 1012 5A

CHTHAMALUS FISSUS

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

CHUKCHI SEA

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

CHUM SALMON

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

CHUTES

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

Convex Chutes in Converging Supercritical Flow,
W77-10020 1020 8B

CHYDORIDAE

The Ecology of Chydoridae (Cladocera) of Lake Baikal (In Russian),
W77-10064 1020 2H

CILIATES

Concentration of Organic Substances in Water as a Factor Controlling the Occurrence of Some Ciliate Species,
W77-03839 1008 5C

CINCINNATI METROPOLITAN SEWER DISTRICT (OH)

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

CIRCULAR CENTER-FEED SEDIMENTATION TANKS

Experiments on Wastewater Sedimentation,
W77-03574 1007 5D

CIRCULATION

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

The Circulation and Salinity Distribution of the Upper Potomac Estuary,
W77-02132 1005 2L

Circulation, Diffusion and Frontal Dynamics in the Coastal Zone,
W77-02794 1006 2H

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

On the Description of the Hydrographic State and the Circulation in the Baltic Deep Water,
W77-04006 1008 2L

CIRCULATION

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

Wave-Induced Circulation in Shallow Basins,
W77-05970 1012 8B

Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Studies of Earth Simulation Experiments,
W77-12568 1024 2B

CIRCULATION DISTRIBUTION

The Circulation and Salinity Distribution of the Upper Potomac Estuary,
W77-02132 1005 2L

CIRRIFORMIA SPIRABRACHA

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

CIRRUS CLOUDS

The Survival of Ice Particles Falling From Cirrus Clouds in Subsaturated Air,
W77-02488 1005 2B

Remote Sensing of the Thickness and Composition of Cirrus Clouds from Satellites,
W77-06513 1013 2B

CISCO

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

CISTERNS

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

CITIES

Ecologically Balanced Community Wastewater Disposal Systems Management for Developing Countries,
W77-00066 1001 5D

Urban Stormwater Detention and Flow Attenuation,
W77-00078 1001 5D

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

Urban Storm Water Runoff: A Two-Fold Problem,
W77-01098 1003 6E

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
W77-01485 1003 4A

Flood Measurements in an Urban Environment: A Data User's Viewpoint,
W77-01940 1004 4A

Inadvertent Weather Modification,
W77-02453 1005 3B

Suspended Sediments from Urban Development,
W77-02788 1006 4C

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

Water, Lighting and Sewers.
W77-03506 1007 6E

Eminent Domain.
W77-03517 1007 6E

Urban Water Use in California.
W77-03549 1007 6B

Protection of Water Supply.
W77-03719 1008 6E

Condemnation of Land and Water Rights.
W77-03726 1008 6E

Sewer Cleaning System Combines Versatility, Low Initial Cost,
W77-04664 1010 8G

California Cities Launch $2 Billion in Sewerage Jobs.
W77-04665 1010 5G

The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

Water Rights.
W77-06074 1012 6E

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Survey Predicts 33 Percent Municipal Compliance with 1977 Deadline,
W77-07877 1016 5G

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

Efficiency in Industrial, Municipal and Domestic Water Use,
W77-10375 1021 6D

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

State Water Control Board V Train (State Compliance with Effluent Limitation Deadline Mandatory Under the Federal Water Pollution Control Act Amendments).
W77-11456 1022 6E

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

CITIZEN PARTICIPATION

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

Binghamton Wastewater Management Study: Public Involvement Appendix.
W77-09388 1019 5G

CITIZEN PERCEPTION

Citizen Perception of Coastal Area Planning and Development: A Study of the Attitudes and Knowledge of Louisianas,
W77-10932 1022 6B

CITROBACTER-FREUNDII

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

CITRUS

Spray Irrigation of Waste Water on Citrus Groves,
W77-02544 1005 5D

Estimated Evapotranspiration and Irrigation Requirements for Citrus,
W77-09406 1019 2D

CITRUS CROPS
Foliar Contents of Sodium and Chloride on Citrus Rootstocks Irrigated with Saline Waters,
W77-12727 1024 3C

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

CITRUS FRUITS
Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

CITY PLANNING
Hydrology,
W77-02968 1006 6B

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

Urban Water Use in California.
W77-03549 1007 6B

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

AWT at Woodlands, Texas,
W77-04690 1010 5D

Developments in Water Quality and Land Use Planning: Problems in the Application of the Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

Municipal Information Systems: Evaluation of Policy Related Research. Volume 2. Computer Utilization in Local Government,
W77-07631 1016 6B

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Urban Water Planning, A Bibliography, Volume 2.
W77-09264 1019 6B

Urban Planning to Minimize Environmental Impact,
W77-09377 1019 6B

Florida's Land Use Restrictions: Are They Serving the Public Interest,
W77-10465 1021 6E

CIVIL ENGINEERING
Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

CIVIL LAW
Pollution--No Private Compensation for Invasion of Public Rights Absent Particular Damages, Burgess V the Tamano, 1973 A.M.C. 1939 (D ME 1973),
W77-06546 1013 5G

CLADOCERA SP.
Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

CLADOPHORA
Cladophora in the Great Lakes,
W77-00928 1002 5C

The Time and the Cause of Extermination of Lake Balls from Lake Zeller, (In Japanese),
W77-01034 1002 5C

The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

An Investigation of the Nearshore Region of Lake Ontario IFYGL.
W77-10053 1020 5C

Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

CLADOPHORA GLOMERATA
Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

CLADOPHORA-SAUTERI
The Time and the Cause of Extermination of Lake Balls from Lake Zeller, (In Japanese),
W77-01034 1002 5C

CLAMS
Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

Effects of Potassium on Adult Asiatic Clams, Corbicula Manilensis,
W77-03119 1007 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Uptake and Retention of Kuwait Crude Oil and its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-04026 1008 5C

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

Thermal Tolerance of Adult Asiatic Clam,
W77-05559 1011 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Aspects of the Life History of Tresus Nuttallii in Elkhorn Slough,
W77-07388 1015 2L

Development of Eggs and Embryos of the Surf Clam, Spisula Solidissima, in Synthetic Seawater,
W77-07396 1015 5C

Effect of Silt and Salinity on the Mortality of Meretrix Lusoria (Roeding), (In Korean),
W77-07428 1015 5C

Uptake and Retention of Kuwait Crude Oil and Its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-07506 1015 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

A Colorimetric Method for Determination of Saxitoxin,
W77-11047 1022 5A

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

CLAMSHELL-TYPE GATES

Clamshell-Type Hydraulic Flow Control Gate,
W77-12817 1024 8C

CLARIAS BATRACHUS

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

CLARIAS LAZERA

Biochemical and Physiological Changes in Egyptian Nile Fish Subjected to Varying Levels of Gamma Irradiation,
W77-10412 1021 5C

CLARIFICATION

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

Conventional Tertiary Treatment,
W77-12474 1024 5D

Sewage Treatment Apparatus,
W77-12935 1024 5D

CLARIFIERS

Optimization of Multistage Secondary Clarifier,
W77-04695 1010 5D

Liquid-Solids Separation Using an Inclined Plate Clarifier,
W77-04832 1010 5D

CLASSIFICATION

An Approach to a Relative Trophic Index for Classifying Lakes and Reservoirs. (A Preliminary Analysis of National Eutrophication Survey Data Collected During the 1972 Sampling Period).
W77-00930 1002 5C

Anthropogenic Morphogenesis of the Relief of the Lower Don, (In Russian),
W77-01039 1002 2H

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Methodology and Criteria for Siting Energy Plants in Idaho,
W77-05006 1010 6G

Interim Classification of Wetlands and Aquatic Habitats of the United States,
W77-05049 1010 4A

Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Classification of Surface Waters.
W77-06373 1013 5G

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Use of Quantitative Correlations Between Microorganisms for River Pollution Evaluation, (In Russian),
W77-07482 1015 5B

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

Water Quality Management - Quality Planning,
W77-12401 1024 5G

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

Water Law in New Zealand,
W77-12883 1024 6E

CLASSIFICATION (BIOLOGICAL)

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

CLAVATE CELLS

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

CLAY ADSORPTION TREATMENT

Clay Adsorption Treatment of Non-Ionic Surfactants in Waste Water,
W77-08522 1017 5D

CLAY CATCHMENT

Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

CLAY LOAM

Land Disposal of Liquid Sewage Sludge: III. .ne Effect on Soil Nitrate,
W77-01557 1004 5D

Persistence of Subsoil Compaction in a Mollisol,
W77-05353 1011 2G

Water Movement Through Pedal Soils: I. Saturated Flow,
W77-10313 1021 2G

Water Movement Through Pedal Soils II. Unsaturated Flow,
W77-10314 1021 2G

CLAY MINERALS

Amelioration of Subsurface Acidity by Leaching of Surface Applied Amendments. A Laboratory Study,
W77-01483 1003 2G

Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Attenuation Mechanisms of Pollutants Through Soils,
W77-02408 1005 5B

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

CLAY PERMEABILITY

Water and Salt Flow Through Compacted Clays: I. Permeability of Compacted Illite and Montmorillonite,
W77-11234 1022 2G

CLAY PIPE

Perforated, Vitrified Clay Pipe Used in Peoria Facilities,
W77-08598 1017 8G

CLAY PIPES

Plain End Pipe Means Production Efficiency,
W77-04660 1010 8G

CLAY SEDIMENTS

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

CLAYS

Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: I. Experimental,
W77-01138 1003 2G

A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

Viscosity of Interlayer Water in Montmorillonite,
W77-01326 1003 2G

Effects of Phosphorus on Some Physical and Chemical Properties of Clays,
W77-02101 1005 2G

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: I. Swelling and Aggregate Stability After Drying,
W77-03073 1006 2G

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

Plain End Pipe Means Production Efficiency,
W77-04660 1010 8G

The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Effects of Polyelectrolytes and Clay Colloids on Carbon Adsorption,
W77-07926 1016 5D

Clay Adsorption Treatment of Non-Ionic Surfactants in Waste Water,
W77-08522 1017 5D

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

Water Table Lowering Between Two Drainage Ditches in Naturally Layered Soils on a Slope, (In German),
W77-09448 1019 4A

Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

Adsorption of Dodecylbenzene Sulfonate on NA(+)-Montmorillonite: Effect of Salt Impurities,
W77-09651 1020 2G

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

The Nature of Changes in Bulk Density with Water Contents in Cracking Clay,
W77-09937 1020 2G

Release of Cadmium from Clays and Plant Uptake of Cadmium from Soil as Affected by Potassium and Calcium Amendments,
W77-09962 1020 2G

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

Potassium Release from Sand, Silt, and Clay Soil Separates,
W77-10277 1021 2G

Influence of Salt and Alkali on Ionic Equilibria in Submerged Soils,
W77-10282 1021 2G

Zinc Adsorption Isotherms for Soil Clays With and Without Iron Oxides Removed,
W77-10284 1021 2G

Water and Salt Flow Through Compacted Clays: I. Permeability of Compacted Illite and Montmorillonite,
W77-11234 1022 2G

Salt Sieving Within Clay Soil Aggregates,
W77-12278 1024 2G

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

CLEAN AIR ACT

Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

CLEAN WATER GRANT PROGRAM

Getting More from a Limited Natural Resource.
W77-04911 1010 6E

CLEANING

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Sewer Cleaning System Combines Versatility, Low Initial Cost,
W77-04664 1010 8G

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Copper Sulfate Fights Root Growth in Sewer Systems,
W77-06991 1014 8G

Contract Services Stretch Sewer Maintenance Budget,
W77-06994 1014 8G

Backwashing of Granular Filters,
W77-07037 1014 5D

Cleaning of Sewage Sludge System.
W77-08561 1017 5D

What Are We Doing About Oil Spill,
W77-09553 1019 5G

Lansco, Inc. v Department of Environmental Protection (Insuror's Liability for Cost of Clean Up of Oil Spills).
W77-09574 1019 6E

Ball Cleaning of Sewer Pipes,
W77-11566 1023 8G

CLEANUP METHODS

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

CLEAR-CUTTING

Airflow Patterns and Snow Accumulation in a Forest Clearing,
W77-00726 1002 4C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Alteration of Water Regulating and Protective Features of the Forest Under Influence of Forestry Measures, (In Russian),
W77-04002 1008 4C

Survival of Coliform Bacteria in Sewage Sludge Applied to a Forest Clearcut and Potential Movement into Ground Water,
W77-04723 1010 5B

Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

Are Clear-Cut Areas Estimated from LANDSAT Imagery Reliable,
W77-08416 1017 4A

Clearcutting in Pennsylvania,
W77-08712 1018 4C

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

The Effect of Strip-Cutting on Stream Temperatures in the Hubbard Brook Experimental Forest, New Hampshire,
W77-09807 1020 4C

Potential Water Yield Response Following Clearcut Harvesting on North and South Slopes in Northern Idaho,
W77-12366 1024 4C

CLEAR LAKE (CALIF)

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

Biological Effects and Persistence of Methyl Parathion in Clear Lake, California,
W77-10063 1020 5C

CLEARWATER RIVER (IDAHO)
The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

CLEVELAND (OHIO)
Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

CLIMATE CONTROL
The Role of Irrigation in Food Production,
W77-09535 1019 3F

CLIMATES
Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

Changes in Forest Structures in the Emmental Expressed in the Tree Count and Distribution and the Possible Long-Term Deterioration of Water Utilization, (In German),
W77-04778 1010 4A

Hillslope Form and Climate,
W77-06314 1013 2J

Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

Interaction of Climate, Organic Material and Stuctural Stability in Muddy Soils, (In French),
W77-12470 1024 2G

CLIMATIC ATLASES
Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

CLIMATIC DATA
Rainfall and Floods in India during 1973 Southwest Monsoon Period,
W77-01329 1003 2B

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

Economics of Storm Protection,
W77-02672 1006 6F

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Comparative Climatic Analysis of Lower Mississippi River Floods: 1927, 1973, and 1975,
W77-05158 1011 2E

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

A New Climatic Model for Glacier Behavior of the Austrian Alps,
W77-08235 1017 2C

A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

HISARS - Hydrologic Information Storage and Retrieval System - Reference Manual,
W77-08610 1018 7C

The Role of Irrigation in Food Production,
W77-09535 1019 3F

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

CLIMATIC EFFECTS
The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

CLIMATIC ZONES
Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

CLIMATOLOGY
Medium Term Fluctuations of Rainfall in Southeastern England,
W77-00092 1001 2B

Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

The Study of Droughts by Water Budget Method over Andhra Pradesh,
W77-01130 1003 2B

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

Climatic Inferences from Former Glaciers in the South-East Grampian Highlands, Scotland,
W77-02467 1005 2C

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

The Consequences of Fooling Mother Nature,
W77-03738 1008 2B

Studies on the Rates of Water Use of Dwarf Wheat and Their Relationship with Potential Values Based on the Climatological Approach,
W77-04314 1009 3F

Barataria Basin: Hydrologic and Climatologic Processes,
W77-05133 1011 2L

Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

Climatology for Geographers,
W77-06659 1014 2B

Devon Island Ice Cap: Core Stratigraphy and Paleoclimate,
W77-06890 1014 2C

Dynamics of Climatic Hazards in Northeast Brazil,
W77-07167 1015 2B

Estimating Above and Below Normal Rainfall Periods Over South Africa, 1972-2000,
W77-07170 1015 2B

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

Weekly Water Balances of Normal and Severe Drought Years at Dharwar,
W77-12332 1024 2B

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

A Long-Term (1860-1970) Change in the Regime of Barometric Pressure at Jerusalem and Its Relation to Rainfall,
W77-12827 1024 2B

CLIMATONOMIC STUDY
A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

CLINOLIMNION
Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

CLINOPTILOLITE REGENERATION
Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

CLINOPTILOTITE
A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

CLINTON QUADRANGLE (OKLA)
Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

CLOGGING
Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

CLONES
Yield Response of Alfalfa Cultivars and Clones to Several pH Levels in Tatum Subsoil,
W77-03075 1006 3F

CLONORCHIS-SINENSIS
Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

CLORIDES
Brackish Groundwater Bodies as a Result of Geological History and Hydrological Conditions,
W77-11057 1022 2F

CLORINITY
Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

CLOSED-CYCLE KRAFT MILL
Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

CLOSED LAKES
On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

CLOSED SYSTEMS
Opportunities and Risks of Closing the Water Cycle in Paper Mills (Chancen und Risiken der Wasserkreislaufschliessung in Papierfabriken),
W77-04815 1010 5D

CLOSED WATER CIRCULATION SYSTEM
Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

CLOSTRIDIUM
Experience with the Bacteriological Control of Waste Water Purification (A szennyviztisztas bakteriologiai ellenorzesenek tapasztalatai),
W77-11725 1023 5D

CLOUD CHAMBERS
A Simple Continuous Ice Crystal Replicator for Use in Laboratory Cloud Chambers,
W77-09360 1019 2B

CLOUD CONDENSATION NUCLEI
Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

CLOUD COVER
Computation of Solar Radiation From Sky Cover,
W77-04772 1010 2B

CLOUD MEASUREMENTS
Final Report, High Plains Cooperative Program Cloud Survey and Seeding Research Aircraft and Associated Data Processing,
W77-01687 1004 3B

CLOUD MODELS
Ice-Bearing Cumulus Cloud Evolution: Numerical Simulation and General Comparison Against Observations,
W77-00648 1002 2B

CLOUD PHYSICS
Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

Ice-Bearing Cumulus Cloud Evolution: Numerical Simulation and General Comparison Against Observations,
W77-00648 1002 2B

Molecular Studies of the Ice-Forming Capabilities of Different Surfaces,
W77-02487 1005 3B

The Survival of Ice Particles Falling From Cirrus Clouds in Subsaturated Air,
W77-02488 1005 2B

Evolution of Raindrop Spectra with Collision-Induced Breakup,
W77-02489 1005 2B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Artificial Modification of Atmospheric Processes,
W77-03303 1007 3B

The Freezing Behaviour of Supercooled Water Drops,
W77-09118 1019 2C

A Simple Continuous Ice Crystal Replicator for Use in Laboratory Cloud Chambers,
W77-09360 1019 2B

Deduction of Ice Particle Types in the Vicinity of the Melting Layer from Doppler Radar Measurements,
W77-09720 1020 2B

Ice Nucleation by Micas,
W77-09956 1020 2B

Collating Airborne and Surface Observations of the Microstructure of Precipitating Continental Convective Clouds,
W77-11804 1023 2B

CLOUD SEEDING
Final Report on an Investigation of Precipitating Ice Crystals from Natural and Seeded Winter Orographic Clouds,
W77-00096 1001 3B

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Result of Operational Cloud Seeding Experiment Over Rihand Catchment in Northeast India,
W77-01129 1003 3B

Draft Environmental Statement: Project Skywater A Program of Research in Precipitation Management, Volume I of II.
W77-01187 1003 6G

Final Report, High Plains Cooperative Program Cloud Survey and Seeding Research Aircraft and Associated Data Processing,
W77-01687 1004 3B

Molecular Studies of the Ice-Forming Capabilities of Different Surfaces,
W77-02487 1005 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

Augmentation of 1968-1972 Winter Storms in New Mexico,
W77-03838 1008 3B

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

Rainfall Results, 1970-1975: Florida Area Cumulus Experiment,
W77-05975 1012 3B

The 1974 Skywater Workshop,
W77-05976 1012 3B

Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

On the Status of Hail Suppression,
W77-06645 1014 3B

Physical Problems of Weather Modification,
W77-07357 1015 3B

Final Report on The Pyramid Lake Pilot Project, 1970-1975, Volume 1, Text of Report,
W77-07566 1015 3B

Final Report on the Pyramid Lake Pilot Project, 1970-1975, Volume 2, Appendices,
W77-07567 1015 3B

Ice Nucleation by Micas,
W77-09956 1020 2B

Cloud Seeding Experimental Program in Rhodesia: 1974-75,
W77-10306 1021 3B

Collection Kernels for the Capture of Silver Iodide Nuclei by Cloud Water Drops,
W77-10308 1021 3B

Characteristics of Silver Iodide Ice Nuclei Generators Currently Used by SO.R.E.M.,
W77-10309 1021 3B

Preliminary Evaluation of the 1976 Rain Modification Project in Central Illinois,
W77-10774 1021 3B

An Examination of the Rainfall Distribution Over the Target Area of the Colorado River Municipal Water District's Weather Modification Program,
W77-10775 1021 3B

CLOUD SEEDING

United States and Mexico: Weather Technology Water Resources and International Law,
W77-11173 1022 6E

Empirical Predictors for Natural and Seeded Rainfall in the Florida Area Cumulus Experiment (FACE), 1970-1975,
W77-11596 1023 3B

CLOUDBURSTS

A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

CLOUDS

Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Stochastic Structure of Cloud and Radiation Fields,
W77-01640 1004 2B

Cloud Interaction and the Formation of the 15 June 1973 Tornado in the FACE Mesonetwork,
W77-01700 1004 2B

Inadvertent Weather Modification,
W77-02453 1005 3B

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

Remote Sensing of the Thickness and Composition of Cirrus Clouds from Satellites,
W77-06513 1013 2B

Acceleration to Terminal Velocity of Cloud and Raindrops,
W77-09719 1020 2B

Collating Airborne and Surface Observations of the Microstructure of Precipitating Continental Convective Clouds,
W77-11804 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

CLOVERS

Dynamics of the Composition and the Qualities of Water-Soluble Organic Substance During the Composting of Clover and Timothy Roots, (In Russian),
W77-00062 1001 5B

CLUPEONELLA DELICATULA CASPIA M TSCH

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

CLUSTER ANALYSIS

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

CLUSTERING TECHNIQUES

A Review of Clustering Techniques with Emphasis on Benthic Ecology,
W77-03372 1007 5A

CLYDE HERRING

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

CLYDE SEA (SCOTLAND)

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

CO-INCINERATION

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

CO2 BOND

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

CO2 UPTAKE

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

COAGULATION

Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

Polymers Play Increased Role in Water Clarification,
W77-00082 1001 5D

Diminution of Suspended Solids in Pulp and Paper Industry Effluents by Treatment with Chemical Coagulants (Diminuarea continutului de suspensii totale in apele reziduale din industria celulozei si hirtiei, prin tratarea cu agenti chimici coagulanti),
W77-00323 1001 5D

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

Treating Polluted Water.
W77-00571 1002 5D

The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Salt Water Domestic Waste Treatment,
W77-02353 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

Advanced Treatment of Pulp Waste Water (Parapu haisui no kodo shori),
W77-02608 1006 5D

Coagulation Clarifying Effluents Contaminated with Colloid Suspensions-By Electrophoresis After Mixing in Insoluble Metallic Particles.
W77-03408 1007 5D

Purification of Effluents from Barking Beech and Pine (Badania nad oczyszczaniem sciekow z korowalni drewna bukowego i sosnowego),
W77-04821 1010 5D

Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

Treatment of Effluent by Flotation Processes,
W77-05511 1011 5D

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

Adsorption, Coagulation and Filtration Make a Useful Treatment Combination-Part 2,
W77-07077 1014 5D

Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

Character and Dewatering Properties of Sludges from Water Treatment,
W77-09881 1020 5D

Zeta Potential Measurement,
W77-09908 1020 5A

Direct Filtration,
W77-10651 1021 5D

Chlorination Seems Best for Removing Suspended Solids from Lagoon Effluents,
W77-10652 1021 5D

Studies on Coagulation Treatment of Spent Water from Pulping Process. (Part 3). Coagulation Mechanism of Lignin (In Japanese),
W77-10761 1021 5D

Water Treatment Using Oxidised Sludge.
W77-11677 1023 5D

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Methods for Improvement of Trickling Filter Plant Performance: Part II - Chemical Addition,
W77-12078 1023 5D

Study of the Influence of Electrocoagulation Conditions on the Efficiency of Pulp and Paper Mill Effluent Purification (Izuchenie vliyaniya uslovii elektrokoagulyatsii na effektivnost' ochistki stochnykh vod tsellyulozno-bumazhnoi promyshlennosti),
W77-12338 1024 5D

Processing of Coagulation Sediments of Textile Industry Effluents (Badania nad przerabianiem osadow pokoagulacyjnych ze sciekow przemyslu wlokienniczego),
W77-12346 1024 5D

Studies on the Treatment of Spent Liquors from Mitsumata and Manila Hemp Pulping, (In Japanese),
W77-12348 1024 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

Waste Water Treatment,
W77-12927 1024 5D

Elimination of Enteroviruses During Treatment of Drinking Water by Coagulation - Flocculation - Filtration, (In French),
W77-12944 1024 5F

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

COAL

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

Travelling Grate-Type Filtration System Uses Pulverized Coal to Lower BOD of Wastewater.
W77-08577 1017 5D

COAL ANALYSIS

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

COAL ASH

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

COAL CONVERSION

Availability of Water for Coal Conversion,
W77-01345 1003 3E

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

COAL DEVELOPMENT

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

COAL GASIFICATION

Potential Environmental Impacts from the Production of Synthetic Fuels from Coal.
W77-09458 1019 5B

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

COAL HUMIC ACIDS

Interactions of Cupric Ion with Humic Acid,
W77-07104 1015 5B

COAL LIQUEFACTION

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

COAL LIQUEFICATION

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

COAL LIQUIFACTION

Potential Environmental Impacts from the Production of Synthetic Fuels from Coal.
W77-09458 1019 5B

COAL MINE

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

COAL MINE DRAINAGE

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

COAL MINE WASTES

Coal and the Environment, Abstract Series, Mine Drainage Bibliography, 1910-1976.
W77-01192 1003 5G

Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Detection of Phosphate Adsorption onto Coal Humic Acids,
W77-08294 1017 5A

Problems and Policy Alternatives: Mining,
W77-10163 1021 5G

Coal Mine Point Source Category Effluent Guidelines and Standards.
W77-11152 1022 6E

Coal Mine Water Pollution: An Acid Problem with Murky Solutions,
W77-11163 1022 5G

Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

COAL MINES

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Commonwealth V. Barnes and Tucker Company (Public Nuisance of Acid Mine Drainage).
W77-03519 1007 6E

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

The Rocky Road to Water for Energy,
W77-04904 1010 3E

A Light-Weight and Cheap Depth Sampler,
W77-07155 1015 5A

Limnologic-Geologic Excursion in the Territory of the Lower Erft River, (In German),
W77-07799 1016 5B

Application of EREP, LANDSAT and Aircraft Image Data to Environmental Problems Related to Coal Mining,
W77-08429 1017 5A

Problems and Policy Alternatives: Mining,
W77-10163 1021 5G

Coal and Coal Mine Drainage, (Literature Review),
W77-10355 1021 5G

COAL MINES

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

Environmental Management and Regional Economic Development,
W77-12583 1024 5G

Northern Great Plains Resources Program: Water Quality Subgroup Report,
W77-12588 1024 5C

COAL PILES
Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

COAL RESOURCES DEVELOPMENT
Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

COAL STORAGE
The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

COAL-TAR CHEMICAL WASTES
Dynamics of the Content of Some Organic Toxic Substances in Plants Irrigated with Effluents of the Coal-Tar Chemical Industry, (In Russian),
W77-02263 1005 5C

COAL-TO-GAS PROCESS
Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

COAL TRANSPORTATION
The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

COALESCENCE
Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

COALESCER METHOD
Oil Conservation and Reclamation,
W77-04455 1009 5D

COALS
Views from the Energy Industries.
W77-00548 1002 6D

'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

Availability of Water for Coal Conversion,
W77-01345 1003 3E

Energy from Coal.
W77-02430 1005 6D

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Virus-Coal Sorption Interaction,
W77-06162 1013 5D

Potential Environmental Impacts from the Production of Synthetic Fuels from Coal.
W77-09458 1019 5B

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

COARSE SEDIMENTS
Development of Bed Configurations in Coarse Sands,
W77-10980 1022 8B

COARSE SOIL LAYER
Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

COARSE SORT SYSTEM
A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

COAST GUARD REGULATIONS
United States V Norfolk Dredging Company ($3,000 Penalty for Minor Oil Spill not Excessive).
W77-06058 1012 6E

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk,
W77-07251 1015 5G

Rules and Regulations for Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Domestic Trade,
W77-07254 1015 5G

Control of Pollution by Oil and Hazardous Substances, Discharge Removal.
W77-08987 1018 5G

Pollution Prevention--Vessel and Oil Transfer Facilities.
W77-11461 1022 5G

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

COASTAL AQUIFERS
An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

A Single-Potential Solution for Regional Interface Problems in Coastal Aquifers,
W77-04881 1010 2F

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

COASTAL AREAS
The California Coastal Plan (A Symposium).
W77-03688 1008 6E

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

COASTAL CURRENTS
Probability Distribution of Concentrations Measured in the Wake of a Continuous Point Source in Coastal Currents,
W77-01927 1004 2H

COASTAL DEVELOPMENT
Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

COASTAL ENGINEERING
Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

Annual Operation of a Coastal Groundwater Basin at a Prescribed Reliability Level,
W77-01882 1004 4B

Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

Some Remarks on Computer Modeling of Coastal Flows,
W77-04897 1010 5B

The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

State Coastal Management Programs,
W77-05035 1010 6E

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

Nonlinear Flow of Wave Crests Past a Thin Pile,
W77-06515 1013 8B

Coastal Energy Impact Program.
W77-08358 1017 6E

Surface Particle Orbits in Uniform Waves,
W77-08845 1018 8B

Estimating Wave Generation on Restricted Fetches,
W77-09021 1018 2L

Estimation of Winds Over the Great Lakes,
W77-09022 1018 2H

Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

Regulating Development Along the California Coast,
W77-09534 1019 4A

A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Suspended Sediment in the Littoral Zone at Ventnor, New Jersey, and Nags Head, North Carolina,
W77-10888 1022 2L

Some Remarks on Computer Modeling of Coastal Flows,
W77-11781 1023 2L

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

COASTAL ENVIRONMENTS
Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

COASTAL EROSION
Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

COASTAL FLOODING
The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

COASTAL LAKES
Meromictic Mechanisms in a Coastal Lake, (In Finnish),
W77-04071 1008 5C

COASTAL LAKES (AFRICA)
The Origin of Southern African Coastal Lakes,
W77-01356 1003 2H

COASTAL LANDS PUBLIC MANAGEMENT ACT OF 1973 (TEX)
Coastal Public Lands Management Act of 1973.
W77-06568 1013 6E

COASTAL MANAGEMENT
The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

COASTAL MARSHES
Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

Fourth Semiannual Interagency Briefing, February 1975, Washington, D.C.,
W77-02158 1005 8G

Salt Marsh Establishment and Development,
W77-02420 1005 4D

The Metula Oil Spill,
W77-02679 1006 5C

Coastal Zone Boundaries.
W77-02685 1006 2L

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Legal Symposium on Wetlands: An Executive Summary, November 1974,
W77-03685 1008 6E

Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

COASTAL PLAINS
Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

Nitrogen Losses from Soils of the North Carolina Coastal Plain,
W77-02294 1005 5B

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

State Coastal Management Programs,
W77-05035 1010 6E

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Coastal Waterway Act of 1975.
W77-12907 1024 6E

COASTAL PLANNING
Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

The California Coastal Plan: A Critique,
W77-11855 1023 6B

COASTAL PROCESSES
Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

COASTAL REGION
Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

COASTAL RESOURCES
Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

COASTAL STATES
Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

COASTAL STRUCTURES
Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Floating Breakwaters,
W77-01222 1003 8B

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

Shoreline Setbacks,
W77-06570 1013 6E

Coastal Energy Impact Program.
W77-08358 1017 6E

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

Breakwater System,
W77-11009 1022 8B

Shoreline Protection in Japan,
W77-11041 1022 4D

COASTAL TRAPPED WAVES
Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

COASTAL WATERS
Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

Sludge,
W77-01085 1003 5G

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

Freedom of Beach,
W77-03584 1007 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

A View of Caracas,
W77-05032 1010 6E

State Coastal Management Programs,
W77-05035 1010 6E

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk,
W77-07251 1015 5G

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

Report on Water Resources Problems of Western Collier County, Florida as Affected by the GAC Corporation's Canal System in Its Golden Gate Development Project,
W77-08380 1017 6E

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

COASTAL WAVE CLIMATE
Coastal Engineering Data Network,
W77-00898 1002 2L

COASTAL WETLANDS
Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

COASTAL ZONE
An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Delaware's Changing Shoreline,
W77-02684 1006 2L

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

The MIT/Marine Industry Collegium Opportunity Brief No. 8. Computer Models for Environmental Engineering and Research in Near-Coastal Environments.
W77-12916 1024 2L

COASTAL ZONE DEVELOPMENT
Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

COASTAL ZONE MANAGEMENT
Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

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W77-00730 1002 6B

The Selling of the Shelf,
W77-00979 1002 5G

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

Coastal Zone Boundaries.
W77-02685 1006 2L

Coastal Zone Boundaries. Summary.
W77-02688 1006 2L

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

1971 Shoreline Management Act.
W77-03514 1007 6E

The Cost of Coastal Zoning.
W77-03535 1007 6E

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

Legal Symposium on Wetlands: An Executive Summary, November 1974,
W77-03685 1008 6E

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Coastal Zone Management in Florida,
W77-03699 1008 6E

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

The Present and Future of Coasts.
W77-04462 1009 2L

Where California Stands on Planning for Its Coast,
W77-04463 1009 2L

Coastal-Zone Planning: An Integrated Approach,
W77-04464 1009 2L

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Ecolibrium, A Balance Between Economy and Ecology,
W77-04470 1009 6G

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

Assessing the Visual Quality of the Coastal Zone,
W77-04485 1009 6B

Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

Advancing to the Rear: A Strategy of Coastal Zone Management on Eroding Shorelines (Preliminary Discussion),
W77-04488 1009 2L

The Management of Urban Coastal Resources,
W77-04845 1010 6B

A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

Implementing the Coastal Plan: A New Test for the Concept of State Control for Areas of Critical State Concern,
W77-04922 1010 6E

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

State Coastal Management Programs,
W77-05035 1010 6E

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Coastal Zone Management and Intergovernmental Coordination,
W77-05059 1010 6E

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

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W77-05208 1011 2L

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

The Marshes,
W77-05400 1011 2L

The Open Marine and Estuarine Waters,
W77-05401 1011 2L

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Scenery for Sale,
W77-05406 1011 6G

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

California--'Saving the Coast',
W77-06048 1012 6G

Shoreline Management and Boating - Can the Industry Survive. (Report on the Fourth Marine Recreation Conference).
W77-06544 1013 6E

Shoreline Setbacks,
W77-06570 1013 6E

State Information Needs Related to Onshore and Nearshore Effects of OCS Petroleum Development,
W77-06934 1014 6G

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Coastal Zone Management, Annotated Bibliography,
W77-06937 1014 2L

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

Waste Management for the Coastal Zone: Concepts for the Assessment of Ocean Outfalls,
W77-07747 1016 5E

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

Ticket to Thermidor: A Commentary on the Proposed California Coastal Plan,
W77-08379 1017 6B

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

Coastal Zone Management Focus on New England; An Annotated Selected Bibliography,
W77-09241 1019 6B

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

Coastal Zones.
W77-09566 1019 6E

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10883 1022 5G

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

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W77-12959 1024 2L

Conceptual Design of a Computer System to Support the Operations of the Submerged Lands Section Under Act 247 and Act 346.
W77-12961 1024 7C

COASTAL ZONE MANAGEMENT ACT

The Selling of the Shelf,
W77-00979 1002 5G

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

Coastal Zone Management in Florida,
W77-03699 1008 6E

The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

COASTAL ZONE MANAGEMENT ACT AMENDMENTS OF 1976

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

COASTAL ZONE MANAGEMENT ACT (CZMA)

The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

COASTAL ZONE MANAGEMENT ACT OF 1972

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

Coastal Energy Impact Program.
W77-08358 1017 6E

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

COASTAL ZONE MANAGEMENT ACT OF 1972 (CZMA)

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

COASTAL ZONE MANAGEMENT PROGRAM

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

COASTAL ZONE MANAGEMENT (TEX)

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

COASTAL ZONE WATER RESOURCES

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

COASTAL ZONES

Contaminants in the New York Bight,
W77-02799 1006 5B

COASTLINES

The California Coastal Plan (A Symposium).
W77-03688 1008 6E

COASTS

A Conceptual Model of Offshore Permafrost,
W77-00094 1001 2C

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W77-00277 1001 2L

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W77-00278 1001 4A

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W77-00279 1001 4A

Effects of Sedimentation on Coastal Zone Organisms,
W77-00838 1002 5C

Sediment Transport in the Coastal Zone,
W77-00840 1002 2L

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

The Development and Implementation of the Coastal Construction Setback Line Law,
W77-01090 1003 6E

Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India,
W77-01626 1004 5B

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

Variations in Coastal Temperatures on the Southern and Central California Coast,
W77-01917 1004 2L

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Directory to U.S. Geological Survey Program Activities in Coastal Areas, 1974-76,
W77-02011 1004 2L

Ocean Dumping Phase-Out in EPA Region II,
W77-02393 1005 5E

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Economics of Storm Protection,
W77-02672 1006 6F

Delaware's Changing Shoreline,
W77-02684 1006 2L

Coastal Zone Boundaries.
W77-02685 1006 2L

Geographic Areas of Particular Concern.
W77-02687 1006 2L

Coastal Zone Boundaries. Summary.
W77-02688 1006 2L

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

Circulation, Diffusion and Frontal Dynamics in the Coastal Zone,
W77-02794 1006 2H

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

1971 Shoreline Management Act.
W77-03514 1007 6E

Coastal Zone Management in Florida,
W77-03699 1008 6E

An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

Applied Mathematical Modelling in Marine Science,
W77-04008 1008 2L

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Coastal-Trapped Waves in a Continuously Stratified Ocean,
W77-04267 1009 2L

Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

The Coastal Interface: Who Owns What,
W77-04362 1009 6E

The Present and Future of Coasts.
W77-04462 1009 2L

Where California Stands on Planning for Its Coast,
W77-04463 1009 2L

Coastal-Zone Planning: An Integrated Approach,
W77-04464 1009 2L

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Optimal Pumping Regimes in an Unconfined Coastal Aquifer,
W77-04873 1010 4B

A Single-Potential Solution for Regional Interface Problems in Coastal Aquifers,
W77-04881 1010 2F

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

State Coastal Management Programs,
W77-05035 1010 6E

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

Oregon Coastal Zone Land: Use, Ownership, and Value Change,
W77-05058 1010 6B

Coastal Zone Management and Intergovernmental Coordination,
W77-05059 1010 6E

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

A Data Integration Study of Lake Ontario for the Episode July 19 - August 2, 1972. Part II,
W77-05126 1011 2H

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Legal/Political Aspects,
W77-05382 1011 6E

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

Effects of Topography on the Circulation in and Near the Surf Zone--Linear Theory,
W77-06500 1013 2L

A Note on Volumetric Considerations of Upwelling in the Benguela Current,
W77-06504 1013 2L

Shoreline Management and Boating - Can the Industry Survive. (Report on the Fourth Marine Recreation Conference).
W77-06544 1013 6E

Monitoring the Marine Environment Through Sedimentation,
W77-06651 1014 2L

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Continental Shelf Waves and Alongshore Variations in Bottom Topography and Coastline,
W77-06891 1014 2L

Incipient Sediment Motion in Entrances with Shell Beds,
W77-06930 1014 2L

Coastal Zone Management, Annotated Bibliography,
W77-06937 1014 2L

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

The Lateral Movement of the Coastal Water and Its Relation to Vertical Diffusion,
W77-08058 1016 2L

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

Discriminating Coastal Rangeland Production and Improvements with Computer Aided Techniques,
W77-08410 1017 4A

A Reconnaissance of the Hydrology of the Intracoastal Waterway from Bucksport to Little River Inlet, South Carolina,
W77-09077 1018 2L

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

Entrainment Velocity in Natural Stratified Vertical Shear Flow,
W77-09946 1020 2L

The Georgia Coastal Environment. A Compilation of Resource Materials Covering the Coastal Plain, Estuaries and Offshore Waters.
W77-10025 1020 2L

Buoyant Surface Discharge and Small-Scale Oceanic Fronts: A Numerical Study,
W77-10104 1021 2L

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Analytical Solution for Steady Interface Flow in a Coastal Aquifer Involving a Phreatic Surface with Precipitation,
W77-10762 1021 2F

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10883 1022 5G

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

Citizen Perception of Coastal Area Planning and Development: A Study of the Attitudes and Knowledge of Louisianas,
W77-10932 1022 6B

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Problems in the Adoption of New Ideas and Practices,
W77-11042 1022 6B

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Survey of Fish Impingement at Power Plants in the United States, Volume III. Estuaries and Coastal Waters,
W77-11127 1022 8I

Who Owns the Beach. Massachusetts Refuses to Join the Trend of Increasing Public Access,
W77-11464 1022 6E

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

The California Coastal Plan: A Critique,
W77-11855 1023 6B

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

Alabama Public Meeting Series on Coastal Zone Boundaries, November - December, 1975. Interpretations,
W77-11900 1023 6E

The Use of Aerial Photography in the Study of Wave Characteristics in the Coastal Zone,
W77-12573 1024 7B

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

Conceptual Design of a Computer System to Support the Operations of the Submerged Lands Section Under Act 247 and Act 346.
W77-12961 1024 7C

COATINGS

Glass Coated Steel Tanks.
W77-02361 1005 8G

Epoxy Mortar and Coating Provide New Life for Invert.
W77-04667 1010 8F

COATZOALCOS RIVER ESTUARY (MEX)

Aquatic Organism Contamination by Mercury Residues in the Coatzacoalcos River Estuary, Mexico,
W77-07394 1015 5C

COBALT

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

COBALT-60

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

COBALT 60-TRANSFER

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

COBALT CHLORIDE

Effect of Yeast and Cobalt Chloride in Increasing Survival Rate of Hatchlings of Heteropneustes Fossils (Bloch),
W77-00632 1002 2I

COBALT RADIOISOTOPES

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

COBBLE

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

COBBOSSEE WATERSHED (MAINE)

Maine Lake Water Quality Strategy.
W77-06357 1013 5C

COCCI

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

COCKFIELD FORMATION (MISS)

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

COD

The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

The Possible Density-Dependence of Larval Mortality and Adult Mortality in Fishes,
W77-05829 1012 2L

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

CODASYL APPROACH

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

CODIUM FRAGILE

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

CODONELLA-CRATERA

Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

COELASTRUM-MICROPORUM

Development of the Chlorococcal Alga Coelastrum Microporum Naeg. in Fish-Breeding Ponds, (In Russian),
W77-02248 1005 5C

COEUR D'ALENE RIVER (IDAHO)

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

COFFEE POND WATERSHED (MAINE)

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

COFFERDAMS

Development of Navigation with Locks and Dams,
W77-02943 1006 8B

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VIII. Pile Foundations and Sheet Pile Cells,
W77-10334 1021 8A

Interface Between Two Dissimilar Fluids Beneath a Sheetpile Cofferdam,
W77-12807 1024 8B

COHESIONLESS SOILS

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

COHESIVE SOILS

Scouring of Cohesive Soils,
W77-02127 1005 2J

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

Towards a Routine Test for the Assessment of the Critical Tractive Forces of Cohesive Soils,
W77-05440 1011 2J

COHO SALMON

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Acute Toxicity of Residual Chlorine in Wastewater to Coho Salmon (Oncorhynchus Kisutch) and Some Resultant Hematologic Changes,
W77-04027 1008 5C

Ontogenetic Variation in the Multiple Hemoglobins of Coho Salmon (Oncorhynchus Kisutch) and Effect of Environmental Factors on their Expression,
W77-04054 1008 5C

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

COHO SALMON

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

Waste Heat Employment for Accelerated Rearing of Coho Salmon,
W77-11664 1023 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

COKE PLANT WASTES

Reducing Coke Plant Effluent,
W77-10922 1022 5D

COKING PLANT EFFLUENTS

Treatment of Aqueous Condensates and Effluents from Coking Plants--With Alkali Salts of Weak Acids, to Expel Ammonia.
W77-08275 1017 5D

COLD GLACIERS

Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

COLD REGION

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Colville River Delta Fisheries Research,
W77-10902 1022 2L

COLD REGIONS

Ecological and Physiological Patterns of Polyartemia Forcipata (Anostraca) from Tundra Water Bodies of the East Murman, (In Russian),
W77-00525 1001 2I

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

Experience in Construction of a Frozen-Type Dam in Yakutiya,
W77-06529 1013 8A

Seasonal Variation in the Nutrient Chemistry and Conservative Constituents in Coastal Alaskan Beaufort Sea Waters,
W77-10899 1022 2L

Studies of Primary Productivity and Phytoplankton Organisms in the Colville River System,
W77-10900 1022 5C

Water Related Utilities for Small Communities in Rural Alaska,
W77-11763 1023 5D

COLD RESISTANCE
Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

COLD SHOCK
Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

COLD SHOCK EFFECT (FISH)
The Effect of Cold Shock on the Vulnerability of Young Bluegill to Predation,
W77-05566 1011 5C

COLD-SHOCK FISH
Further Studies of Cold-Shock Effects on Susceptibility of Young Channel Catfish to Predation,
W77-05564 1011 5C

Acute Cold-Shock Resistance of Gizzard Shad,
W77-05565 1011 5C

COLD WATER
Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

COLD-WATER FISH
Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

COLD WEATHER CONSTRUCTION
Snow-Road Construction--A Summary of Technology from Past to Present,
W77-01638 1004 4C

Method for Constructing an Ice Platform,
W77-06451 1013 3E

COLEOPTERA
Method of Marking Aquatic Coleoptera, (In French),
W77-02920 1006 7B

COLEPS-HIRTUS
Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

COLIFORM BACTERIA
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

COLIFORMS
Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Fecal Coliform Analysis: Effects of Elevated Temperatures on Quantitative Recovery,
W77-02182 1005 5A

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

The Role of Solar Ultraviolet Radiation in 'Natural' Water Purification,
W77-02552 1005 5D

Cyanophage Analysis as a Biological Pollution Indicator-Bacterial and Viral,
W77-03460 1007 5A

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

Variations of Coliform Bacteria and Other Pollution Indices in Surface Waters.
W77-03539 1007 5B

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Fecal Coliform and Fecal Streptococcus Density Relationships in Waste Discharges and Receiving Waters,
W77-04711 1010 5B

Survival of Coliform Bacteria in Sewage Sludge Applied to a Forest Clearcut and Potential Movement into Ground Water,
W77-04723 1010 5B

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Bacterial Distributions in Lake Erie (1967, 1970),
W77-05227 1011 5C

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

COLIFORMS

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

Rapid Agar Pour-Plate Technique for Detection and Enumeration of Faecal Coliforms in Sewage,
W77-08520 1017 5A

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

Destruction of Coliforms in Water and Sewage Water by Dye-Sensitized Photooxidation,
W77-10618 1021 5D

Evaluation of Recovery Methods to Detect Coliforms in Water,
W77-11483 1022 5A

Experience with the Bacteriological Control of Waste Water Purification (A szennyviztisztas bakteriologiai ellenorzesenek tapasztalatai),
W77-11725 1023 5D

Two-Temperature Membrane Filter Method for Enumerating Fecal Coliform Bacteria from Chlorinated Effluents,
W77-11728 1023 5A

Bacteriological Analyses Over the Rajka-Budapest Danube Section (Bakteriologiai vizsgalatok a Duna Rajka-Budapest kozotti szakaszan),
W77-11732 1023 5A

Membrane Filter Technique for the Quantification of Stressed Fecal Coliforms in the Aquatic Environment,
W77-11736 1023 5A

Occurrence of Escherichia Coli B Bacteriophages in Municipal Wastewater and Their Removal and Inactivation by Activated Sludge Sewage Treatment,
W77-12140 1023 5A

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

COLIMETRIC EXAMINATIONS

Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

COLIPHAGE

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

COLIPHAGES

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

COLLAGEN

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

COLLAGENS

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

COLLECTION KERNELS

Collection Kernels for the Capture of Silver Iodide Nuclei by Cloud Water Drops,
W77-10308 1021 3B

COLLECTION NETWORKS

SWAN, A Sewer Analysis and Modeling System,
W77-09206 1019 5D

COLLECTION SYSTEM

Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

COLLECTIVE UTILITY

Collective Utility: A Systems Approach to Water Pricing Policy,
W77-06712 1014 6C

COLLECTORS (SAMPLING)

Apparatus for Collecting Deep-Sea Sediment Pore Water,
W77-10881 1022 7B

COLLEGES

Graduate Education Opportunities in Water Resources in the State of Minnesota.
W77-00156 1001 9A

Water Resources Research Interests in the Colleges and Universities of North Carolina.
W77-08931 1018 9A

1975-1976, Annual Report, Water Resources Research Institute of the University of North Carolina.
W77-11794 1023 9D

COLLINS RIVER (TN)

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

COLLOID FILTRATION

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

COLLOIDS

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

The Colloidal Nature of Radionuclides in Seawater,
W77-04514 1009 5B

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

COLONIAL AUK

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

COLOR

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

Treatment of Sewage.
W77-00572 1002 5D

Preliminary Study of Pulp Mill Effluent Decolorization by the Method of Simultaneous Coagulation (Wstepne badania odbarwiania sciekow celulozowych metoda koagulacji symultanicznej),
W77-01650 1004 5D

Color Removal in a Ferric Chloride-Lime System,
W77-01653 1004 5D

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

Uddeholm (Forest Industries) -- Kamyr Closed Bleached Plant (at Skoghall, Sweden),
W77-01671 1004 5D

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

On Spent Liquor of Semichemical Pulping (V). Improvement of the Color Removal Efficiency by the Photochemical Treatment (SCP haieki ni tsuite (V). Shigaisen shori ni okeru shosha koritsu no kojo),
W77-02008 1004 5D

Chemical Pulping,
W77-02606 1006 5B

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

Lightness and Color of the Sea Water in the Tagonoura-Port, (In Japanese),
W77-03965 1008 5A

Percolating Effluent into Ground Reduces Color at Missoula Mill,
W77-04824 1010 5D

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

Purification of Waste Water from Sulfate Pulp Bleaching Plants,
W77-05704 1012 5D

Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Granular Activated Carbon in Water Treatment,
W77-11720 1023 5D

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

COLOR REDUCTION

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

COLOR REMOVAL

Review of Colour Removal Technology in the Pulp and Paper Industry,
W77-07734 1016 5D

COLORADO

Final Report on an Investigation of Precipitating Ice Crystals from Natural and Seeded Winter Orographic Clouds,
W77-00096 1001 3B

Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

Kelly Ranch V Southeastern Colorado Water Conservancy District (Plan of Augmentation by Developer).
W77-01112 1003 6E

Snowmelt Lysimeters Perform Well in Cold Temperatures in Central Colorado,
W77-01432 1003 2C

Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

Effects of Water-Management Practices on the Flow of the South Platte River, Colorado,
W77-02303 1005 4B

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

Denver's Headworks Reflects Complexity of System,
W77-03412 1007 5D

Colorado Water Quality Control Act.
W77-03490 1007 6E

Individual Sewage Disposal System Act.
W77-03491 1007 6E

Floating Timber on Streams.
W77-03492 1007 6E

Specific Grants of Power (Condemnation and Rights-of-Way).
W77-03493 1007 6E

Cache La Poudre Water Users Association V Glacier View Meadows (Appropriation of Water in Plan of Augmentation).
W77-03520 1007 6E

Limnological Characteristics of Strip Mine Ponds in Northwestern Colorado, U.S.A.,
W77-03538 1007 5C

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Water Resources of El Paso County, Colorado,
W77-03890 1008 6D

Hydrologic Unit Map--1974, State of Colorado.
W77-03893 1008 7C

Ground Water Resources of the Bedrock Aquifers of the Denver Basin Colorado,
W77-04126 1009 2F

The Big Thompson Flood of 1976 in Colorado,
W77-04247 1009 2E

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

Water Resources Data for Colorado, Water Year 1975--Volume 1. Missouri River Basin, Arkansas River Basin, Rio Grande Basin.
W77-04975 1010 7C

Relation of Erosion to Sediment Yield,
W77-04986 1010 2J

Determination of Snow Depth and Water Equivalent by Remote Sensing,
W77-05104 1011 2C

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
W77-05369 1011 5B

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

Tributary Ground Water and Change-of-Place-of-Use Rules in Designated Ground Water Basins in Colorado.
W77-06545 1013 4B

Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

Bunger v. Uncompahgre Valley Water Users Association (Conditional Water Permits).
W77-07267 1015 6E

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

Water-Level Records for the Northern High Plains of Colorado, 1973-77,
W77-07486 1015 4B

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

Statistical Forecasting of Snow Avalanches, San Juan Mountains, Southern Colorado, U.S.A.,
W77-08055 1016 2C

Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

Leadville Mine Drainage Tunnel Act of 1976.
W77-08115 1017 6E

Selected Hydrologic Data, Uinta Basin Area, Utah and Colorado,
W77-08183 1017 7C

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

Transport of Molybdenum in Mountainous Streams, Colorado,
W77-08705 1018 5B

Evaporation from Seven Reservoirs in the Denver Water-Supply System, Central Colorado,
W77-08736 1018 2D

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Segregation and Reclamation of Household Wastewater at an Individual Residence,
W77-08806 1018 5D

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

Predicting Snow Depths on a Mountain Watershed,
W77-09257 1019 2C

Potential Water Recreation Opportunities at Municipal and Private Forest Mountain Reservoirs,
W77-09272 1019 6B

Soil Nitrates Following Four Years Continuous Corn and as Surveyed in Irrigated Farm Fields of Central and Eastern Colorado,
W77-09429 1019 5B

Water Law - Well Permits - Unappropriated Water and Maximum Utilization, Hall v. Kuiper, 510 P.2d 329 (Colo. 1973),
W77-09543 1019 6D

Precipitation Trend and Storm Analysis in Colorado.
W77-09685 1020 2C

Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

Plutonium in the Aquatic Environment Around the Rocky Flats Facility,
W77-10399 1021 5B

An Evaluation of Water Reuse For Municipal Supply,
W77-10444 1021 5D

Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

Operational Applications of Satellite Snowcover Observations in Rio Grande Drainage of Colorado,
W77-10666 1021 4A

Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

Toxic Metals in Ground Water of the Front Range, Colorado,
W77-10853 1022 5A

The Big Thompson River Flood of July 31-August 1, 1976, Larimer County, Colorado,
W77-10859 1022 2E

Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

Institutionalized Inefficiency: The Unfortunate Structure of Colorado's Water Resource Management System,
W77-11768 1023 6E

Case Study of a Watershed Rehabilitation Project: Alkali Creek, Colorado,
W77-12367 1024 4D

Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

Water-Level Records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado, 1973-77,
W77-12373 1024 7C

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

Application of LANDSAT Data to Delimitation of Avalanche Hazards in Montane Colorado,
W77-12567 1024 2C

Integrating Desalination and Agricultural Salinity Control Technologies,
W77-12761 1024 3A

Effects of Recreation on Water Quality in Wildlands,
W77-02590 1006 5C

Sediment Control at Imperial Dam,
W77-00802 1002 4D

Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

Water Available for Energy--Upper Colorado River Basin,
W77-01350 1003 3E

Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

State and County Area Tabulations for the Colorado River Basin,
W77-03110 1007 7C

Treaties Concerning Colorado River,
W77-06075 1012 6E

The Colorado River Salinity Problem--Old Approaches to a New Issue,
W77-06540 1013 5G

Colorado River Compact.
W77-06579 1013 6E

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Regional Environmental Management Modeling.
W77-10842 1022 6A

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

The Politics of Salt: Background and Implications of the Mexican-American Treaty of 1944,
W77-11097 1022 6E

The Water Quality Problem on the Colorado River,
W77-11168 1022 5G

United States Approaches to the Salinity Problem on the Colorado River,
W77-11170 1022 6E

Salinity in the Colorado: An Interpretation of the Mexican-American Treaty of 1944,
W77-11171 1022 6E

The Colorado River: International Aspects,
W77-11172 1022 6E

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

Predicted and Actual Yield Decline from Fifty Percent Increase in Salinity of the Colorado River,
W77-12738 1024 3C

Energy and the Colorado River,
W77-12836 1024 6D

Reservoir Management and the Water Scarcity Issue in the Upper Colorado River Basin,
W77-12839 1024 4A

COLORADO RIVER BASIN

A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

Law, Hydrology, and Surface-Water Supply in the Upper Colorado River Basin,
W77-02119 1005 6E

Colorado River Basin Pilot Project, Comprehensive Evaluation Report, Five Winter Seasons 1970-71 to 1974-75,
W77-03060 1006 3B

State and County Area Tabulations for the Colorado River Basin,
W77-03110 1007 7C

Water Problems in the Colorado River Basin: Legal and Institutional Framework,
W77-03830 1008 5G

Water Resources Research in the Lower Colorado River Basin, 1972-1976,
W77-04148 1009 4A

Treaties Concerning Colorado River,
W77-06075 1012 6E

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

The Colorado River Salinity Problem--Old Approaches to a New Issue,
W77-06540 1013 5G

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

Sediment Yield and Land Use in Southwest United States,
W77-08178 1017 4D

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Colorado River Water Quality Improvement Program (Final Environmental Statement).
W77-09527 1019 5G

Colorado River Basin Salinity Control Project--Title I,
W77-09931 1020 5D

Mexican-American International Water Quality Problems: Prospects and Perspectives,
W77-11169 1022 6E

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-12329 1024 3B

A Look at Crop Yields Along the Colorado in 2000 AD,
W77-12509 1024 3F

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

Stochastic Approach to the Colorado River Basin,
W77-12724 1024 4D

Evaluating Improved Irrigation Water Management Technologies for Reducing Salt Pickup from Grand Valley,
W77-12764 1024 5G

Energy and the Colorado River,
W77-12836 1024 6D

Reservoir Management and the Water Scarcity Issue in the Upper Colorado River Basin,
W77-12839 1024 4A

COLORADO RIVER BASIN (COLO)

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

COLORADO RIVER BASIN PROJECT ACT

Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

COLORADO RIVER COMPACT

Law, Hydrology, and Surface-Water Supply in the Upper Colorado River Basin,
W77-02119 1005 6E

Colorado River Compact.
W77-06579 1013 6E

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

COLORADO RIVER (TEX)

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

An Examination of the Rainfall Distribution Over the Target Area of the Colorado River Municipal Water District's Weather Modification Program,
W77-10775 1021 3B

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

COLORADO RIVER (TX)

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

COLORADO RIVER WATER CONSERVATION DISTRICT

Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

COLORIMETRY

An Automated Method for the Determination of Low-Level Kjeldahl Nitrogen in Water and Waste Water,
W77-01643 1004 5A

Determination of Small Quantities of Vinyl Acetate in Air, Water, Alcoholic Solutions and Food Products, (In Russian),
W77-02117 1005 5A

New Automated Colorimetric Method for the Determination of Chloride Using Chromotropic Acid,
W77-02812 1006 5A

Lightness and Color of the Sea Water in the Tagonoura-Port, (In Japanese),
W77-03965 1008 5A

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Colormetric Determination of Zinc Via Resorcinol Complex,
W77-09138 1019 5A

COLORIMETRY

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

A Colorimetric Method for Determination of Saxitoxin,
W77-11047 1022 5A

Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

COLUMBIA

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

COLUMBIA (CIENAGA GRANDE)

Bacteriological Studies in the Cienaga Grande (Great Marsh) of Santa Maria, Columbia, (In Spanish),
W77-07512 1015 5C

COLUMBIA LOCK (LA)

Analysis of Data from Instrumentation Program, Columbia Lock,
W77-10783 1021 8G

COLUMBIA RIVER

Water Temperature Simulation,
W77-00616 1002 5B

Water Pollution Control Act of 1972, Environmental Impact Assessment, Columbia River.
W77-01955 1004 5G

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Pollution of Interstate Waters of the Lower Columbia River Bonneville Dam to Cathlamet, Washington.
W77-03385 1007 5B

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

Dissolved Gas Data Report, 1974, Columbia and Lower Snake Rivers,
W77-04408 1009 5A

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

Equipment and Techniques for Monitoring the Vertical Distribution of Fish in Shallow Water,
W77-04416 1009 5C

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Biological Studies: Laboratory Orientation,
W77-04432 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Nitrogen Saturation Levels on the Mid-Columbia River, 1965-1971,
W77-04442 1009 5C

Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

Water Resources Service Dissolved Gas Study: Interim Data Summary,
W77-05080 1010 5C

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

Structural Modifications,
W77-05087 1010 8A

Nitrogen Supersaturation Problem, Public Meeting, March 23, 1971,
W77-05088 1010 5A

Proposed Research and Development Program in Fiscal Years 1973 and 1974 at Columbia and Snake River Projects for Nitrogen Control,
W77-05089 1010 8A

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Review of Gas Supersaturation Research Done by National Marine Fisheries Service at Prescott Field Facility -- 1969-1974,
W77-05091 1010 5C

Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Gas Supersaturation Research - 1975, Prescott Facility - NMFS.
W77-05784 1012 5C

Report to Corps of Engineers Gas Supersaturation Research, Prescott Facility, 1974,
W77-05785 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

Withdrawal of Certain Waters from Appropriation: Special Municipal and County Water Rights,
W77-08142 1017 6E

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Columbia River Nutrient Study-1972,
W77-09504 1019 5C

Spatially Averaged Flow Over a Wavy Surface,
W77-10103 1021 2E

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

Drainage Progress and Problems on the Columbia Basin Project,
W77-12618 1024 8A

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

COLUMBIA RIVER BASIN
Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

COLUMBIA RIVER DAMS
Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

COLUMBIA-SNAKE CONFLUENCE
Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

COLUMNARIS
Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

COLUMNS
High Yield Stripping Column for Alcoholic Solutions--With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

COLVILLE RIVER (ALASKA)
Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

COLVILLE RIVER DELTA (ALASKA)
Breakup Flooding and Nutrient Source of Colville River Delta During 1973,
W77-03388 1007 5B

COLVILLE RIVER ESTUARY (ALAS)
Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

COMBINED SEWER OVERFLOWS
Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09825 1020 5D

COMBINED SEWER SYSTEMS
Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

COMBINED SEWERS
Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Practices, Policies and Technology of Storm and Combined Sewers in Foreign Countries.
W77-02767 1006 5G

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

Equalization of Flow Variations in Combined Sewers,
W77-03860 1008 5D

An Analysis of U.S. Environmental Protection Agency's Needs Survey,
W77-04308 1009 5G

Development and Application of a Simplificd Stormwater Management Model,
W77-04637 1010 5D

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

Environmental Impact of Urban Stormwater Runoff,
W77-04731 1010 5B

Quality Aspects of Urban Stormwater Runoff,
W77-04733 1010 5B

Three Case Studies on the Application of the Storm Water Management Model,
W77-04742 1010 5B

Comparative Analysis of Urban Stormwater Models,
W77-04743 1010 5B

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

Single P/C Unit Removal of Nutrients from Combined Sewer Overflows,
W77-07031 1014 5D

Treatment of Combined Sewer Overflows Via Thin Film Chemistry,
W77-07034 1014 5D

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

On-Line Adaptive Control for Combined Sewer Systems,
W77-07100 1014 5D

Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

Urban Runoff Pollution Control--Technology Overview,
W77-09825 1020 5D

Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09825 1020 5D

Nationwide Evaluation of Combined Sewer Overflows and Urban Stormwater Discharges. Volume II: Cost Assessment and Impacts,
W77-09874 1020 5D

Demonstration of Void Space Storage with Treatment and Flow Regulation.
W77-10532 1021 5F

Wastewater Management Program, Jamaica Bay, New York, Volume I: Summary Report,
W77-10533 1021 5D

Treatment of Combined Sewer Overflows,
W77-10542 1021 5D

Combined Sewer Overflows,
W77-10543 1021 5D

Program Hopes to Reduce Pollution from Sewer Overflow.
W77-10547 1021 5B

Wastewater Collection,
W77-10549 1021 5D

Urban Runoff and Combined Sewer Overflow,
W77-10600 1021 4A

Optimal Storage Control in a Combined Sewer System,
W77-10846 1022 5D

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

Wastewater Flow Measurement in Sewers Using Ultrasound,
W77-11759 1023 7B

Selected Applications of Instrumentation and Automation in Wastewater-Treatment Facilities,
W77-11761 1023 5D

Methodology for Evaluating the Cost of Urban Stormwater Quality Management,
W77-12075 1023 6B

Heavy Rains, Poor Soil Force Internal Sewer Repair.
W77-12459 1024 8F

Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

Countermeasures for Pollution from Overflows; The State of the Art,
W77-12497 1024 5G

Detention Tank for Combined Sewer Overflow, Milwaukee, Wisconsin, Demonstration Project.
W77-12824 1024 5D

COMBINED TOXICANTS

An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

COMBINED WASTE TREATMENT

Basf Completes Ten-Year Project for Cleaning up the Rhine,
W77-00403 1001 5D

COMBUSTION

Controlled Combustion Tests Carried Out Near Rimouski,
W77-02759 1006 5E

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

COMMERCIAL CLAM BEDS

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

COMMERCIAL FISH

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

The Fish Community in Lake Erie,
W77-05229 1011 5C

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

The Accumulation of Mercury in Fishes Reared in the Sea Water Contaminated by Suspended Solids Containing Mercury, (In Japanese),
W77-06404 1013 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Present and Historical Spawning Grounds and Nurseries of American Shad, Alosa sapidissima, in the Delaware River,
W77-07131 1015 5C

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Fish Fauna of Lakes of the Lower Reaches of the Zarafshan River and its Fishery Use, (In Russian),
W77-08708 1018 2H

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

COMMERCIAL FISH FOODS

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transfer-

ring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

COMMERCIAL FISHERIES
Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Fisheries and Renewable Resources of the Northwest Atlantic Shelf,
W77-04945 1010 6G

COMMERCIAL FISHING
Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

A Predator-Prey Model for Discrete-Time Commercial Fisheries,
W77-01171 1003 6A

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Northwest Mariculture Laws,
W77-03598 1007 6E

Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

New York's Marine Fisheries: Changing Needs in a Changing Environment,
W77-12247 1023 6B

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

COMMERCIAL SHELLFISH
Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Closed-Cycle Mariculture in Maryland, Virginia, and Delaware: An Examination of the Adaptability of Existing Fishery Laws to New Technology,
W77-06052 1012 6E

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Title to Foreshore--Georgia Tidelands Act of 1902 Grants Right to Cultivate and Harvest Shellfish in Foreshore Area, Fee Simple Reserved in the State (Comment on State V Ashmore).
W77-11463 1022 6E

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

COMMERCIAL WATER DEMAND
Development of Commercial/Institutional Parameter Units for the Main II System of Water Demand Forecasting,
W77-04182 1009 6D

COMMERICAL FISHING
The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

COMMERICAL SHELLFISH
Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

COMMODITY DEMAND CURVES
The Values of Goods and Services--Implications for a Flexible National Water Policy,
W77-10837 1022 6B

COMMON EIDER DUCK
Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

COMMON ENEMY DOCTRINE
Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

COMMON ENEMY RULE
From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

The Application of Surface Water Rules in Urban Areas,
W77-10459 1021 6E

COMMON LAW
United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

COMMON MERGANSER DUCK
Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

COMMON PROPERTY
'Common Property' as a Concept in Natural Resources Policy,
W77-02064 1004 6B

COMMON PROPERTY RESOURCES
Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

COMMON SEAL
Distribution of Heavy Metals in Tissues of the Common Seal,
W77-04059 1008 5C

COMMON SHINER
Effect of Ferric Hydroxide Suspension on Blood Chemistry in the Common Shiner, Notropus cornutus,
W77-12237 1023 5C

COMMONS CONCEPT
A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

COMMUNICATION
(Watershed Management and Decision Making in Relation to Computer Hardware, Communications and Software Design),
W77-00619 1002 7C

A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

COMMUNICATION CHANNELS
Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

COMMUNICATION MEDIA
Water Resources Technology Transfer -- A Guide,
W77-04346 1009 10F

COMMUNICATIONS
Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

COMMUNITY DEVELOPMENT
The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

Joint Municipal Corporation Waste Water Treatment,
W77-07920 1016 5D

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

COMMUNITY DIVERSITY INDEX
Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

COMMUNITY LEADERS
Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

COMMUNITY PARTICIPATION
The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

COMMUNITY STRUCTURE
Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

COMPACTED-SNOW PAVEMENTS
Snow-Road Construction--A Summary of Technology from Past to Present,
W77-01638 1004 4C

COMPACTION
Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

COMPARATIVE BENEFITS
Public Choice and Urban Water Quality,
W77-03960 1008 6B

COMPARATIVE COSTS
The Economics of Waste Water-Aquaculture Systems,
W77-02069 1004 5G

Public Choice and Urban Water Quality,
W77-03960 1008 6B

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

COMPARATIVE LAW
Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

Water Law in New Zealand,
W77-12883 1024 6E

COMPARATIVE PRODUCTIVITY
Comparative Characteristics of Zooplankton of Lake Glubokoye for 1972-1973 and in 1951, (In Russian),
W77-06455 1013 2H

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

COMPENSATION
Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

Amdel Pipeline Inc V State of Texas (Statutory Requirement of Payment for Spoil Dredged from Bottom of Approaches to Corporate Loading Docks).
W77-07271 1015 6E

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

Joubert V. State (State Liable for Flood Damage to Crops Caused by Opening of Dam's Floodgates).
W77-10483 1021 6E

COMPENSATORY FUND
Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

COMPETING USES
Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Competition and Spacing in Plant Communities: The Northern Mohave Desert,
W77-02174 1005 2I

Water Rights,
W77-03599 1007 6E

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Hefferline V Langkow (Structural Rights of Adjacent Riparian Landowners),
W77-04930 1010 6E

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

Federal Statutory Modification of Private Water Rights in South Florida,
W77-08112 1017 6E

Farmers Investment Company V Bettwy (Doctrine of Reasonable Use as Applied to Groundwaters).
W77-08137 1017 6E

Water-Use Leasing Act.
W77-09010 1018 6E

Environmental Changes in Lake Erie and Their Future Impact on Lake Resources.
W77-09454 1019 5C

Procedure for Determining or Establishing Water Rights in State Streams.
W77-11197 1022 6E

Water and Development in Saudi Arabia,
W77-11991 1023 4B

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

The Need for a Reform of Water Use Law in Illinois,
W77-12884 1024 6E

COMPETITION
Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

The Effect of Copper on Competition Between Marine Algae,
W77-10051 1020 5C

COMPETITIVE BALANCE
The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

COMPOSITE RO MEMBRANES
Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

COMPOSITE WELL SYSTEMS
Composite Well Systems,
W77-12678 1024 8B

COMPOST (SLUDGE)
Converting Sewage Sludge into Compost.
W77-06112 1013 5D

COMPOSTED SLUDGE
Inactivation by Ionizing Radiation of Salmonella Enteritidis Serotype Montevideo Grown in Composted Sewage Sludge,
W77-09880 1020 5D

COMPOSTING
Composting Raw Sludge,
W77-00038 1001 5D

Dynamics of the Composition and the Qualities of Water-Soluble Organic Substance During the Composting of Clover and Timothy Roots, (In Russian),
W77-00062 1001 5B

C(rown) Z(ellerbach)'s Solids Waste Problems at Wauna are Reduced by Composting,
W77-02572 1005 5E

Farm Waste Composting Process.
W77-04619 1010 5B

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Composting--An Approach to Using Sewage Waste,
W77-07876 1016 5E

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

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W77-09831 1020 5E

COMPOSTING (SOLID WASTES)
Concurrent Waste Water Renovation and Solid Waste Composting,
W77-09879 1020 5D

COMPREHENSIVE PLANNING
Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

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W77-00532 1002 6A

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W77-00670 1002 6F

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W77-00704 1002 6F

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W77-00769 1002 6G

Shoreland Regulation in Wisconsin,
W77-01087 1003 6E

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W77-01152 1003 6B

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W77-04902 1010 6E

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W77-04922 1010 6E

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W77-05036 1010 6E

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W77-05059 1010 6E

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W77-10465 1021 6E

$885 Million-Plus Plan is Recommended for Boston Area,
W77-10578 1021 5D

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Water Law in New Zealand,
W77-12883 1024 6E

COMPREHENSIVE WATER QUALITY MANAGEMENT PLANNING PROGRAM (COWAMP)

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

COMPRESSIBILITY

Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

COMPRESSION TESTS

Time-Dependent Development of Strength in Dredgings,
W77-05966 1012 5G

COMPRESSIVE STRENGTH

Strain Rate Effect on the Strength of Frozen Silt,
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Concrete Properties at Ocean Depths,
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COMPUTER MAPPING PROGRAMS

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COMPUTER MODEL CLEAN

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W77-06381 1013 5C

COMPUTER MODEL CLEANER

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W77-03523 1007 6A

Computer Modeling,
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W77-06333 1013 2F

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W77-06519 1013 5B

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W77-07850 1016 6A

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

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W77-08038 1016 3F

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W77-08218 1017 2A

Regional Simulation of Streamflow Data,
W77-08298 1017 2A

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W77-08301 1017 3F

Aquifer Modeling Helps Farmers.
W77-08317 1017 2F

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W77-08602 1018 5G

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W77-08745 1018 2E

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W77-08867 1018 5B

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W77-08911 1018 2L

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W77-08940 1018 4A

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W77-09014 1018 2E

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W77-09030 1018 2F

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W77-09112 1019 2F

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W77-09158 1019 5G

Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

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W77-09165 1019 5B

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W77-09169 1019 5B

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W77-09170 1019 5B

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W77-09172 1019 5D

FEDBAK03 - A Computer Program for the Modelling of First Order Consecutive Reactions with Feedback Under a Steady State Multidimensional Natural Aquatic System,
W77-09176 1019 5B

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W77-09180 1019 5D

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W77-09186 1019 5D

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W77-09187 1019 5B

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W77-09188 1019 5D

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W77-09943 1020 4A

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W77-09993 1020 2E

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W77-10437 1021 2A

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W77-11781 1023 2L

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W77-12316 1024 2E

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W77-12381 1024 5B

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W77-12391 1024 2F

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W77-12491 1024 5G

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W77-12503 1024 3F

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W77-12537 1024 3F

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COMPUTER PROGRAMS

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W77-00161 1001 10B

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W77-02098 1005 3F

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W77-02814 1006 5A

Discharge Computations at River Control Structures,
W77-02986 1006 4A

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W77-03211 1007 6C

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W77-03298 1007 2J

Water Resources Data System,
W77-03728 1008 7C

A Water Resources Data Management System for South Carolina,
W77-03733 1008 7C

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W77-03780 1008 5A

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

Optimization Model for the Design of Urban Flood-Control Systems,
W77-04179 1009 2E

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Selected Case Studies Using Stormwater Management Models -- Quanitity aspects,
W77-04740 1010 2E

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

Documentation of Four Ocean-Related Computer Modules,
W77-04838 1010 5B

Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

Estimation of Areal Average Precipitation Using Different Network Densities and Averaging Techniques,
W77-05109 1011 2B

Hydrograph Analysis: A Computerized Separation Technique,
W77-05117 1011 4A

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

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W77-05735 1012 2C

Extended Period Simulation of Water Systems--Part B,
W77-05996 1012 4A

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W77-06381 1013 5C

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

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W77-07066 1014 5B

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W77-07152 1015 2E

Symap Computer Projections of Summer Zooplankton Populations in Van Lake, Montana,
W77-07511 1015 7C

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W77-07513 1015 5A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

The AFGWC Snow Cover Analysis Model,
W77-08223 1017 2C

Regional Simulation of Streamflow Data,
W77-08298 1017 2A

RECSAD: A Computer Program for Recreation Planning,
W77-08300 1017 6B

A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

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W77-08464 1017 4A

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W77-08609 1018 7C

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Computer Applications for Step-Backwater and Floodway Analyses,
W77-09090 1018 4A

FEDBAK03 - A Computer Program for the Modelling of First Order Consecutive Reactions with Feedback Under a Steady State Multidimensional Natural Aquatic System,
W77-09176 1019 5B

SWAN, A Sewer Analysis and Modeling System,
W77-09206 1019 5D

Mathematical Models for Calculating Performance and Cost of Wastewater Treatment Systems,
W77-09208 1019 5D

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

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The Investigation of Sewer Networks by Computer,
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User Manual for Sewer and Water Accounts Processing Module.
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W77-12411 1024 5D

Computerized Irrigation Scheduling Method May Save Farmers Millions of Dollars.
W77-12518 1024 3F

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

The MIT/Marine Industry Collegium Opportunity Brief No. 8. Computer Models for Environmental Engineering and Research in Near-Coastal Environments.
W77-12916 1024 2L

Conceptual Design of a Computer System to Support the Operations of the Submerged Lands Section Under Act 247 and Act 346.
W77-12961 1024 7C

COMPUTER SEARCHES
Information Dissemination in the Water Resources Field,
W77-01191 1003 10D

COMPUTER SIMULATION AND OPTIMIZATION
The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

COMPUTERS
OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

(Watershed Management and Decision Making in Relation to Computer Hardware, Communications and Software Design),
W77-00619 1002 7C

Compression of Time-Series Data,
W77-01132 1003 7C

A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

Alarm System Continually Monitors Plant Functions,
W77-02382 1005 8C

Computer Controls 55,000 Cu M/Day of Sewage.
W77-06169 1013 5D

Make Money by Computer,
W77-08730 1018 5D

Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Computer Applications to Achieve Optimum Economic Loading of Generating Plants,
W77-10288 1021 6A

Automatic Network Analysis by Microcomputer.
W77-10544 1021 5B

Direct Digital Control at the Iowa City Water-Treatment Plant,
W77-10585 1021 5F

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

Comparison of the Results of an Experimental Study on the Soil Water System Using Computer Analysis, (In Russian),
W77-11392 1022 2G

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

CONCENTRATION GRADIENTS
Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

CONCEPTUAL MODELS
Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

CONCRETE
Movement Joint for Concrete Sewer Bridge.
W77-07885 1016 8F

Prefabricated Panels for Sub-Surface Sewage Effluent and Waste Water Disposal,
W77-08091 1016 5E

Polymerization of Concrete Fights Cavitation,
W77-09044 1018 8F

CONCRETE CONSTRUCTION
Epoxy Mortar and Coating Provide New Life for Invert.
W77-04667 1010 8F

Telescoping Form System Speeds Sewer Concreting.
W77-07879 1016 8F

Concrete Bucket Distributes Crushed Bedding Evenly on Sewer Job.
W77-08556 1017 8F

CONCRETE DAMS
Design of Gravity Dams, Design Mnual for Concrete Gravity Dams,
W77-07151 1015 8A

CONCRETE MOISTURE
An Evaluation of Selected Instruments used to Measure the Moisture Content of Hardened Concrete,
W77-03295 1007 8F

CONCRETE PILES
Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

CONCRETE PIPES
A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

Precast Segments Speed Installation of Thunder Bay Sewer,
W77-02330 1005 8F

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

Water Quality, Conduits, and Geometrics.
W77-12499 1024 8F

Composite Conduit Construction for Lower Cost Installations and Improved Performance,
W77-12501 1024 8F

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

CONCRETE-POLYMER MATERIALS
Concrete-Polymer Materials--Final Report (USBR-BNL-AEC-OSW Cooperative Program),
W77-07803 1016 8F

CONCRETE STRUCTURES
Construction of Goscote Sewage Pumping Station,
W77-02326 1005 8C

Emergency Repair of a Deep Storm Sewer Line,
W77-02350 1005 8G

Digestion is a Good Egg in Los Angeles,
W77-02365 1005 5D

PVC Lining--The Answer to Corrosive Attack by H2S in Concrete Sewers and Structures.
W77-09835 1020 8G

CONCRETE TECHNOLOGY
Concrete-Polymer Materials--Final Report (USBR-BNL-AEC-OSW Cooperative Program),
W77-07803 1016 8F

Telescoping Form System Speeds Sewer Concreting.
W77-07879 1016 8F

Synthetic Aggregates Made from Sewage Plant Sludge.
W77-09924 1020 8F

CONCRETES
Performance of Lignite and Subbituminous Fly Ash in Concrete - A Progress Report,
W77-02803 1006 8F

An Evaluation of Selected Instruments used to Measure the Moisture Content of Hardened Concrete,
W77-03295 1007 8F

Concrete-Polymer Materials--Final Report (USBR-BNL-AEC-OSW Cooperative Program),
W77-07803 1016 8F

Comparison of 4-1/2-and 7-In. (6-In. Nominal) Maximum Size Aggregate Mixtures for New Lock and Dam No. 26, Mississippi River,
W77-10978 1022 8F

CONDEMNATION
Gardner V Hamilton (Right to Exercise Eminent Domain for Flood Control).
W77-00996 1002 6E

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

Eminent Domain.
W77-03517 1007 6E

Canal Authority V Ocala Manufacturing Ice and Packing Company (Construction of Cross Florida Barge Canal).
W77-03715 1008 6E

Condemnation of Land and Water Rights.
W77-03726 1008 6E

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels),
W77-07280 1015 6E

United States V 3,727-91 Acres of Land in Pike County, State of Missouri (Compensation Allowed Drainage District for Condemned Property).
W77-08399 1017 6E

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative

Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

Ingram V City of Redondo Beach (Inverse Condemnation Suit Resulting in Damages for Flooding).
W77-10489 1021 6E

CONDEMNATION VALUE
Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

United States V 3,727-91 Acres of Land in Pike County, State of Missouri (Compensation Allowed Drainage District for Condemned Property).
W77-08399 1017 6E

CONDENSATES
Treatment of Contaminated Condensates,
W77-01672 1004 5D

CONDENSATION
An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

Treatment of Contaminated Condensates,
W77-06224 1013 5D

CONDENSATION NUCLEI
Cloud Condensation Nucleus Size Distributions and Their Effects on Cloud Droplet Size Distributions,
W77-10125 1021 2B

CONDENSERS
The Use of Sewage Effluent as Power Station Cooling Water,
W77-07949 1016 5G

CONDITION FACTOR
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

CONDITIONAL WATER PERMITS
Bunger v. Uncompahgre Valley Water Users Association (Conditional Water Permits).
W77-07267 1015 6E

CONDUCTIVITY
Method of Simultaneous Determination of Water Conductivity of Soils and Plants, (In Russian),
W77-00512 1001 2I

Field Mapping Soil Conductivity to Delineate Dryland Saline Seeps with Four-Electrode Technique,
W77-01622 1004 2G

Error Propagation in Determining Hydraulic Conductivities from Successive Water Content and Pressure Head Profiles,
W77-05434 1011 2G

A Specific Conductance Method for Quality Control in Water Analysis,
W77-05453 1011 2K

Generalized Dependence of Moisture Pressure and Conductivity on Moisture Content in Uniform Mechanical Soil Fractions, (In Russian),
W77-06369 1013 2G

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

CONDUCTIVITY-SALINITY CALIBRATIONS
Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

CONDUITS
A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

Large-Diameter Corrugated Steel Pipe Enters Storm Sewer Field.
W77-00074 1001 5D

Epoxy Mortar and Coating Provide New Life for Invert.
W77-04667 1010 8F

Wells, Pumping Plants, Conduits and Streams,
W77-08154 1017 6E

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VII. Single- and Multicell Conduits and Tunnels,
W77-10333 1021 8A

Water Quality, Conduits, and Geometrics.
W77-12499 1024 8F

Composite Conduit Construction for Lower Cost Installations and Improved Performance,
W77-12501 1024 8F

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

CONE OF DEPRESSION
Ground Water Flow in Unconsolidated Formations,
W77-01763 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01929 1004 4B

Pumping Tests Provide Useful Data: Part 3,
W77-12683 1024 8G

CONEJOS RIVER (COLO)
Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

CONFERENCE
Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Proceedings, Technology Transfer Seminar on High Quality Effluents,
W77-07330 1015 5D

CONFERENCES
Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

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W77-00460 1001 5B

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

Proceedings of the Third Federal Inter-Agency Sedimentation Conference 1976.
W77-00775 1002 2J

Cladophora in the Great Lakes,
W77-00928 1002 5C

PIANC,
W77-00976 1002 6E

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

Flash Floods.
W77-01933 1004 2E

Effects of Man on the Interface of the Hydrological Cycle with the Physical Environment.
W77-02771 1006 4D

U.S. Army Corps of Engineers Fourth Hydrographic Survey Conference, 5-6 November 1975,
W77-02937 1006 8B

An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Report on Tenth Annual Water Resources Research Conference, Sponsored by Office of Water Research and Technology, April 9-10, 1975.
W77-03206 1007 9D

Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems.
W77-03642 1008 5B

Legal Symposium on Wetlands: An Executive Summary, November 1974,
W77-03685 1008 6E

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

The Present and Future of Coasts.
W77-04462 1009 2L

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

The Early Life History of Fish, Volume II.
W77-04524 1009 2I

Thermal Ecology II.
W77-05541 1011 5C

In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

The Early Life History of Fish,
W77-05821 1012 5C

The 1974 Skywater Workshop,
W77-05976 1012 3B

Proceedings Mississippi Water Resources Conference 1976.
W77-06084 1012 4A

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Conference on Research in Tunneling and Excavation Technology,
W77-06885 1014 8E

Advanced Waste Treatment Seminar, Session III, Removal of Solids and Organics, Held at San Francisco, on October 28-29, 1970.
W77-07074 1014 5D

Proceedings of the Annual Conference, April 20-23, 1975, Toronto, Ontario,
W77-07329 1015 5D

Proceedings of the Seventh Dredging Seminar.
W77-07342 1015 8D

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Technical Session Presentations, Water Resources, Volume I-D,
W77-08062 1016 7B

The National Conference on Water.
W77-08131 1017 6E

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Volume I-A, Technical Session Presentations, Agriculture-Environment.
W77-08408 1017 7B

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W77-08677 1018 2K

Proceedings: The Connecticut River System: A Workshop on Research Needs and Priorities.
W77-08808 1018 6B

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Proceedings: Minnesota's Water Resources in the Year 2000, A Conference on Planning and Management.
W77-10177 1021 6B

Impacts of Nuclear Releases into the Aquatic Environment.
W77-10384 1021 5C

Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

Operational Applications of Satellite Snowcover Observations.
W77-10662 1021 2C

Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

Arid Lands of Sub-Saharan Africa: Appendices to the Staff Final Report.
W77-11122 1022 4C

Report of a Workshop on the Impact of Thermal Power Plant Cooling Systems on Aquatic Environments, Vol. I. Working Group Results.
W77-11123 1022 5C

Workshop on Environmental Research for Transuranic Elements.
W77-11128 1022 5C

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W77-11900 1023 6E

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-12816 1024 3B

CONFIGURATION INTERACTIONS

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

CONFINED AQUIFERS

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

CONFINED-UNCONFINED AQUIFERS

A Numerical Study of Confined-Unconfined Aquifers Including Effects of Delayed Yield and Leakage,
W77-04882 1010 2F

CONFINED WATER

Artesian Aquifers,
W77-01761 1004 4B

Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

CONFINEMENT FEEDING OPERATION

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

CONFINEMENT PENS

Confined Animals and Public Environment,
W77-04617 1010 5B

CONFORMAL MAPPING

Seepage from Trapezoidal Canal in Anisotropic Soil,
W77-02137 1005 2G

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

CONGESTION

Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

CONGO

Malacological Studies in the Lufira (Katanga) Artificial Lake Area: Distribution and Ecology of Aquatic Molluscs: Epidemiological Role of Intestinal and Urinary Bilharziosis Vectors, (In Danish),
W77-10238 1021 5C

CONGO (AFRICA)

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

CONGO RIVER

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

CONGRESSIONAL HEARINGS

The Muddy Road to Clean Water,
W77-03587 1007 5G

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

Garrison Diversion Unit Irrigation Project: Prospects and Problems, Part 2.
W77-04365 1009 6E

Ocean Dumping--Part 2.
W77-05037 1010 5E

Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

Amend the Federal Boat Safety Act of 1971 (Hearings on S. 3214 to Declare Certain Waters of New Hampshire to Be Non-navigable for Certain Purposes).
W77-07255 1015 6E

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Amend the Merchant Marine Act of 1920 (Hearings on S 2422 to Include the Virgin Islands Within the Scope of the Act With Respect to Transportation of Oil and Oil Products).
W77-08982 1018 6E

The Push to Ease Water Rules.
W77-10446 1021 6E

Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

Water Quality Research.
W77-12900 1024 5G

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

Implementation of the Federal Water Pollution Control Act (Review of the Southwest Sewer District, Suffolk County, Long Island, New York).
W77-12903 1024 5G

CONIFEROUS FORESTS
Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

CONIFERS
Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

CONJUCTIVE AVAILABILITY
Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

CONJUCTIVE USE
Integration of Aquifers in Flood Control Projects,
W77-06723 1014 4A

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

CONJUNCTIVE USE
A Computer Program for Estimating Costs of Owning and Operating an Irrigation Well Under Conditions of Declining Water Levels,
W77-03211 1007 6C

Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

The Conjunctive Use of a Multi-Reservoir System and a Dual-Purpose Desalting Plant,
W77-06714 1014 4B

Conjunctive Use of the Tajo-Segura Aqueduct Surface System and the Aquifers of the La Mancha Area,
W77-06728 1014 4B

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

Underground Reservoirs to Control the Water Cycle,
W77-12667 1024 2F

CONNATE WATER
Hydrochemistry and Ground-Water Mixing in Part of the Lincolnshire Limestone Aquifer, England,
W77-01627 1004 2F

• Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

CONNECTICUT
A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

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W77-03919 1008 5C

Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

People and the Sound. Water Management.
W77-06594 1013 6B

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

A Contribution to the Life History of the Cunner, Tautogolabrus Adspersus, in Fishers Island Sound, Connecticut,
W77-07377 1015 5C

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

Belford V. City of New Haven (Individual's Challenge to City's Dredging and Construction),
W77-08143 1017 6E

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Water Resources Commission V. Connecticut Sand and Stone Corporation (Judicial Review of Administrative Factual Determination).
W77-08404 1017 6E

Water Resources Data for Connecticut, Water Year 1975,
W77-08480 1017 7C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Mianus River Preservation Committee V. Administrator, Environmental Protection Agency (Jurisdiction of Federal Appeals Court for Permits Issued by State Agency Under NPDES).
W77-09001 1018 6E

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

Mineralogical Composition of Submerged Aquatic Macrophytes from Connecticut,
W77-09477 1019 5A

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

CONNECTICUT

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W77-10906 1022 6G

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W77-11899 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

CONNECTICUT RIVER

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Connecticut River Basin Program. Part III, Phase I. Water Quality Reconnaissance for the Connecticut River Supplemental Study.
W77-04871 1010 5G

The Connecticut River Ecological Study: A Synopsis,
W77-05589 1011 5C

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

Connecticut River Water Resource Decision-Making,
W77-06017 1012 6B

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Proceedings: The Connecticut River System: A Workshop on Research Needs and Priorities.
W77-08808 1018 6B

Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

CONNECTICUT RIVER BASIN

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

CONNECTICUT RIVER BASIN COMMISSION

Connecticut River Basin Program. Part III, Phase I. Water Quality Reconnaissance for the Connecticut River Supplemental Study.
W77-04871 1010 5G

CONNECTION FAILURE

Field Application of Externally Stress-Relieved Drill Collars,
W77-04130 1009 8G

CONOWINGO CREEK (MD-PA)

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

CONOWINGO RESERVOIR (PENN-MD)

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

CONSERVATION

Optimal Taxation Policies for Conservation and Recycling,
W77-00921 1002 6G

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

Limnological Ecosystems and Hawaii's Preservational Planning,
W77-04149 1009 6A

The Wetlands Dilemma: A Solution,
W77-04477 1009 6G

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Conservation as a Major Alternative,
W77-04854 1010 3E

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Place and Role of Plant Cover in Optimization of the Donbas Natural Environment, (In Ukranian),
W77-06858 1014 4C

Energy Conservation and Heat Recovery in Waste Water Treatment Plants,
W77-07024 1014 5D

Russo V. New York Dept. of Environmental Conservation (Limits of State Regulations Restricting Alteration of Wetlands).
W77-08388 1017 6E

Regulating Development Along the California Coast,
W77-09534 1019 4A

Conservation Districts Law.
W77-09584 1019 6E

Scenic Waterways (Designation, Acquisition, and Protection).
W77-10496 1021 6E

Urban Renewal Agency of City of Monterey V California Coastal Zone Conservation Commission (Municipal Corporation Exempt from Coastal Zone Conservation Act Permit Requirement).
W77-11178 1022 6E

CONSERVATION ZONES

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

CONSITUTIONAL LAW

The Import - Export Clause and Control of Oil Pollution: Regulatory Fee Imposed Pursuant to the Police Power,
W77-08354 1017 5G

CONSOLIDATION

Mathematical Model for Predicting the Consolidation of Dredged Material in Confined Disposal Areas,
W77-00167 1001 5B

Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

Deviations from the Theis Solution in Aquifers Undergoing ThreenDimensional Consolidation,
W77-05953 1012 2F

CONSTANT PARAMETER RIVER
Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

CONSTANT TEMPERATURE TEST
Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

CONSTITUTIONAL LAW
Harbors, Tide Waters and Water Rights.
W77-01003 1002 6E

Use of Building Codes: To Regulate Florida's Hurricane Flood Plain,
W77-01096 1003 6E

Askew V Game and Fresh Water Fish Commission (Pollution Abatement Efforts Held Constitutional).
W77-04379 1009 6E

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

Constitutionality of the Eckhardt Open Beaches Bill,
W77-11158 1022 6E

CONSTRAINTS
Objective Function and Constraints in Water Resources Systems,
W77-08046 1016 6A

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

CONSTRUCTION
Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

Channel Erosion Surveys Along Taps Route, Alaska, 1975,
W77-00433 1001 2J

An Overview of Urban Sedimentology,
W77-00491 1001 4C

Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

Sediment Yield from Construction Sites,
W77-00780 1002 4C

Diking Districts; Powers.
W77-01008 1002 6E

The Development and Implementation of the Coastal Construction Setback Line Law,
W77-01090 1003 6E

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Manual of Water Well Construction Practices.
W77-01777 1004 8B

Tanks of Panel Construction.
W77-02325 1005 8A

Construction of Goscote Sewage Pumping Station,
W77-02326 1005 8C

Austin's 11 Mile Sewer Tunnel Reflects Sound Economic, Environmental Alternatives,
W77-02327 1005 5D

Thurrock Beats Peat with Piled Pipes,
W77-02328 1005 8E

Test New Sewers with Low-Pressure Air,
W77-02329 1005 8G

Precast Segments Speed Installation of Thunder Bay Sewer,
W77-02330 1005 8F

Glass Coated Steel Tanks.
W77-02361 1005 8G

Digestion is a Good Egg in Los Angeles,
W77-02365 1005 5D

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Evaluating Well Construction,
W77-04131 1009 8B

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

Coastal Public Lands Management Act of 1973.
W77-06568 1013 6E

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Waste Water Treatment Plant Built in Wet Hole,
W77-07021 1014 5D

Looking Ahead (Federal Water Pollution Control Act of 1972).
W77-07235 1015 6E

Encroachments on Navigable Lake.
W77-07264 1015 6E

Problems Associated with Construction of Submarine Pipelines,
W77-07349 1015 8D

The Conception, Design, and Construction of Metropolitan Toronto Mid-Toronto Sewer,
W77-07888 1016 8B

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Polyethylene Sewer Force Main Takes Varying Pressures.
W77-08549 1017 8G

Post-Tensioned Sewer River Crossing.
W77-08552 1017 8E

Ideas Aplenty-But Still Sewers Face Cash Neglect.
W77-08554 1017 8G

Seabed Sewers for Hong Kong,
W77-08555 1017 5E

Pennsylvania Waste Water Project Progresses Quickly.
W77-09840 1020 5D

Construction Management for Waste Water-treatment Plants,
W77-09920 1020 5D

Problems and Policy Alternatives: Construction,
W77-10164 1021 5G

Alabama Power Company v Martin (Power Company Estopped from Asserting Flood Easement Rights).
W77-11184 1022 6E

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

Concrete Properties at Ocean Depths,
W77-11779 1023 8F

The Construction of the First Phase of the Modernisation of Shieldhall Sewage Works in Glasgow,
W77-12450 1024 5D

CONSTRUCTION COSTS
Comparative Costs of Erosion and Sedimentation Control Measures,
W77-00794 1002 4D

Kerbs and Channels,
W77-01389 1003 8F

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Waste Water Treatment Plant Built in Wet Hole,
W77-07021 1014 5D

Construction and Maintenance Costs of Sewer Systems (Bau- und Betriebskosten von Kanalisationsanlagen),
W77-08542 1017 8A

The Push to Ease Water Rules.
W77-10446 1021 6E

How to Improve Drilling Economics by Using a Shock Absorber,
W77-10526 1021 8G

EPA Indexes Show Costs Rising at Quicker Pace.
W77-10589 1021 5D

Water Treatment Plant Design is Cost-Effective,
W77-11742 1023 5D

Implementation of the Federal Water Pollution Control Act (Review of the Southwest Sewer District, Suffolk County, Long Island, New York).
W77-12903 1024 5G

CONSTRUCTION EQUIPMENT
Mechanical Mole Burrows Sewer Tunnel,
W77-03397 1007 8C

Innovations in Sewer Design and Construction,
W77-03399 1007 8G

Waste Water Treatment Plant Built in Wet Hole,
W77-07021 1014 5D

CONSTRUCTION GRANT PROGRAM
Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

CONSTRUCTION JOINTS
Joint Sealing Problems in Water Retaining Structures in Johannesburg,
W77-01479 1003 8G

Movement Joint for Concrete Sewer Bridge.
W77-07885 1016 8F

CONSTRUCTION MATERIALS
Manual of Water Well Construction Practices.
W77-01777 1004 8B

New Techniques and Materials for Constructing Hydraulic Models,
W77-02964 1006 8G

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

Waste Water Treatment Plant Built in Wet Hole,
W77-07021 1014 5D

Plastic Sewer Pipe Materials.
W77-07931 1016 8G

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

The Construction of the First Phase of the Modernisation of Shieldhall Sewage Works in Glasgow,
W77-12450 1024 5D

CONSTRUCTION PERMITS
Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

CONSTRUCTION PRACTICES
Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

CONSTRUCTION SITES
Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

CONSUMER PRODUCTS
Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

CONSUMER SURVEYS
Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

CONSUMPTIVE USE
Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Cache La Poudre Water Users Association V Glacier View Meadows (Appropriation of Water in Plan of Augmentation).
W77-03520 1007 6E

Talley V Carley (Priorities to Water in 1963 Amendment to 82 Oklahoma Statutes Annotated Section 1-A).
W77-03521 1007 6E

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, III. Oilseed Crops,
W77-03634 1008 3F

Studies on the Rates of Water Use of Dwarf Wheat and Their Relationship with Potential Values Based on the Climatological Approach,
W77-04314 1009 3F

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Yield and Moisture Use Pattern of Rabi Crops Grown Under Rainfed Conditions of Eastern U.P.,
W77-11992 1023 3F

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

CONTACT STABILIZATION
Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

CONTAINMENT BARRIERS
Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

CONTAMINATION (WATER)
The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

CONTENT ANALYSIS
Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

CONTERMINOUS UNITED STATES
Maximum Floodflows in the Conterminous United States,
W77-12156 1023 7C

CONTIGUOUS ZONE
A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

CONTIGUOUS ZONES
Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

CONTINENTAL DROUGHTS
A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

CONTINENTAL MARGIN
Marine Sand and Gravel Mining,
W77-00195 1001 3E

CONTINENTAL SHELF
On Forced, Long Continental Shelf Waves on an f-Plane,
W77-00131 1001 2L

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

The Selling of the Shelf,
W77-00979 1002 5G

Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

Abstracts. Special Synposium - The Middle Atlantic Continental Shelf and New York Bight,
W77-02678 1006 5C

Current Structure and Mixing in the Shelf/Slope Water Front South of New England,
W77-03087 1007 2L

Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

The International Law of Scientific Research in the Oceans,
W77-03687 1008 6E

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

LOS III: Prospects and Problems,
W77-04353 1009 6E

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Description of Wind, Current, and Bottom Pressure Variations on the Continental Shelf in the Northeast Gulf of Alaska from February to May 1975,
W77-05154 1011 2L

Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Program Development Plan. Environmental Assessment of the Alaskan Continental Shelf,
W77-06878 1014 6G

Continental Shelf Waves and Alongshore Variations in Bottom Topography and Coastline,
W77-06891 1014 2L

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

Circulation and Hydrographic Structure Over the Ghana Continental Shelf During the 1974 Upwelling,
W77-06893 1014 2L

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

An Analytical Sea Current Model for Coastal Regions with Application to the New York Bight,
W77-07744 1016 2L

States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
W77-08365 1017 6E

Comparison of Remotely Sensed Continental-Shelf Wave Spectra with Spectra Computed by Using a Wave Refraction Computer Model,
W77-08911 1018 2L

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

As an Incident of National Sovereignty, the United States Has Paramount Rights and Power in the Seabed and Subsoil of the Outer Continental Shelf,
W77-08974 1018 6E

Preliminary Summary of the 1976 Atlantic Margin Coring Project of the U.S. Geological Survey,
W77-09089 1018 2L

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Jurisdiction Over the Seabed: . Persistent Federal-State Conflict,
W77-10460 1021 6E

Offshore Mineral Resource Exploitation: The State and Federal Response,
W77-10471 1021 6E

Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

Arctic Continental Shelf Processes and Morphology Related to Sea Ice Zonation, Beaufort Sea, Alaska,
W77-11383 1022 2C

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

The Effects of a Variable Coriolis Parameter, Coastline Curvature and Variable Bottom Topography on Continental Shelf Waves,
W77-12299 1024 2L

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

Wind Stress on the Ocean Over the Eastern Continental Shelf of North America,
W77-12551 1024 2L

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

CONTINENTAL SHELF WAVES

On Forced, Long Continental Shelf Waves on an f-Plane,
W77-00131 1001 2L

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

CONTINENTAL SHELVES

Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

CONTINENTAL SLOPE

On Forced, Long Continental Shelf Waves on an f-Plane,
W77-00131 1001 2L

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

CONTINUITY EQUATION

On the Species Transport Equation for Flow in Porous Media,
W77-02452 1005 2F

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

CONTINUOUS BIOLOGICAL MONITORING SYSTEMS

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

CONTINUOUS CULTURE

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

CONTINUOUS CULTURE SYSTEM

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

CONTINUOUS DRILL STRING

New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

CONTINUOUS FILTER PRESS

Continuous Filter Press.
W77-09826 1020 5D

CONTINUOUS FLOW

Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

CONTINUOUS FLOW BIOASSAY

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

CONTINUOUS FUNCTION DESIGNS

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

CONTINUOUS MAXIMUM PRINCIPLE

Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

CONTINUOUS MONITORING

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

CONTINUOUS POLLUTANT EXPOSURE

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

CONTINUUM MODELS

Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

CONTOOCOOK RIVER (NEW HAMPSHIRE)

The Waste Treatment Facility of Monadnock Paper Mills, Inc.
W77-01641 1004 5D

CONTOOCOOK RIVER (NH)

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

CONTOURS

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

CONTRACTION
Free Flow Immediately Below Sluice Gates,
W77-07161 1015 8B

CONTRACTS
Contracting for Social Impact Assessment,
W77-00771 1002 6G

Clear Lake Apartments, Inc V Clear Lake Utilities (Exclusive Right to Provide Water Not a Covenant Running With the Land).
W77-03716 1008 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

CONTROL
A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

BOD as Pollutional Parameter,
W77-04715 1010 5A

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

Nitrogen Control: Design Considerations for Supported Growth Systems,
W77-09848 1020 5D

Simulation Aided Modeling of the Dynamic Behavior for some Elements of a Surface Water Treatment Plant,
W77-10815 1022 5F

Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

CONTROL EQUIPMENT
Controlling Erosion and Sedimenation at Construction Sites,
W77-02146 1005 4D

CONTROL OF POLLUTION ACT 1974 (UK)
Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

CONTROL PLANS
A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

CONTROL RULES
Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

CONTROL STRUCTURES
Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

CONTROL SYSTEMS
Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Peripheral Water Balance Control for Center Pivot Irrigation System,
W77-01754 1004 3F

Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

A Scheme for Effective Control of Effluent pH,
W77-03802 1008 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

CONTROL THEORY
Pollution Abatement and Regional Welfare: A Control Theory Approach,
W77-04169 1009 6G

CONTROLLED EXPERIMENTAL ECOSYSTEM
Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

CONTROLLED EXPERIMENTAL ECOSYSTEMS
Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

CONTROLLED EXPERIMENTAL ECOSYSTEMS

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

CONVECTION

An Analysis of Instabilities Caused by Salinity Gradients in Groundwater,
W77-01931 1004 5B

Convective-Dispersion in Perennial Streams,
W77-07160 1015 5B

Physical Modeling of Combined Forced and Natural Convection in Wet Geothermal Formations,
W77-07303 1015 4B

An Experimental and Theoretical Study of the Turbulent and Laminar Convection Generated Under a Horizontal Ice Sheet Floating on Warm Salty Water,
W77-07773 1016 2C

On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

A Study of Cooling Initially Uniform and Thermally Stratified Layers of Water,
W77-08444 1017 5G

Peripheral Mixing Turns Sludge into Fuel Gas.
W77-11704 1023 5D

CONVECTIVE DIFFUSION EQUATION

On the Species Transport Equation for Flow in Porous Media,
W77-02452 1005 2F

CONVEYANCE EFFICIENCY

A New Approach for Estimating Irrigation Conveyance Losses and Their Economic Evaluation,
W77-12164 1023 3F

CONVEYANCE STRUCTURES

Sewer Force Main Helps Solve Pollution Problem.
W77-00075 1001 5D

Kaministiquia Interceptor Sewer Completed in Thunder Bay.
W77-00076 1001 5D

Dilution and Design,
W77-02332 1005 5E

Irrigation Districts Powers and Purposes.
W77-03515 1007 6E

Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

Blumenfeld v San Francisco Bay Conservation and Development Commission (California Statutes Granting Jurisdiction to Conservation Commission Should be Construed so as not to Defeat the Intent of the Legislature).
W77-11180 1022 6E

Conveyor System Moves Sewage Quickly, Prevents Spillage.
W77-12447 1024 8G

COOL WATER RELEASES

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

COOLING

Thermal Pollution and Its Control,
W77-07245 1015 5G

Research Foundation Utilizes Ground Water Heat Pumps,
W77-07693 1016 8C

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

COOLING PONDS

Thermal Pollution and Its Control,
W77-07245 1015 5G

COOLING SYSTEMS

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

COOLING TOWER

The Cooling Water Equation,
W77-01468 1003 6D

Thermal Pollution and Its Control,
W77-07245 1015 5G

COOLING TOWERS

Wet Cooling Tower with Plume Eliminator,
W77-01193 1003 5G

Escom Pioneers Dry Cooling,
W77-01467 1003 3E

Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

Silica in Water in Relation to Cooling Tower Operation,
W77-02875 1006 5D

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

The Use and Re-Use of Sewage Effluent,
W77-06116 1013 5D

COOLING WATER

The Behavior of Pseudomonas Aeruginosa in Surface Water, Cooling Water and Waste Water, (In German),
W77-00347 1001 5B

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Chromium Recovery from Sludges Produced from Chromate-Inhibited Cooling Water,
W77-02874 1006 5D

Silica in Water in Relation to Cooling Tower Operation,
W77-02875 1006 5D

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

River and Cooling Water Temperature Fluctuations,
W77-03834 1008 5B

A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

Wasted Heat and Aquatic Ecosystems,
W77-04869 1010 5C

The Incidence and Effect of Once-Through Cooling on Young-of-the-Year Fishes at Long Point Bay, Lake Erie: A Preliminary Assessment,
W77-05597 1011 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

Study on Respiratory Metabolism Modifications in Acartia clausi (Crustacea: Copepoda) Populations after Passage through the Cooling Circuit of a Power Plant,
W77-07305 1015 5C

The Use of Sewage Effluent as Power Station Cooling Water,
W77-07949 1016 5G

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Year Round Cooling Water from the Cold Weather of Winter,
W77-08251 1017 5D

Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

Industrial Use of Brackish and Saline Water in the Haifa Bay Area,
W77-11077 1022 3C

Power Plants and Plankton,
W77-12039 1023 5C

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

COOLING WATERS

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

COON CREEK (WIS)

Sedimentation in Coon Creek Valley, Wisconsin,
W77-00835 1002 4D

COOPERATIVE WATER-STUDIES PROGRAM

Water-Resources Investigations in Kentucky, 1976.
W77-09078 1018 7C

Water-Resources Investigations in Wisconsin, 1976.
W77-09079 1018 7C

COOPERATIVES

Rural Water Districts in Kansas.
W77-09135 1019 6D

COORDINATION

Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Workshop Report Integrating Water Quality and Water and Land Resources Planning.
W77-04202 1009 6B

Growth with Environmental Awareness,
W77-05044 1010 6E

Appraisal of Areawide Waste Water Planning,
W77-07874 1016 5G

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

COOS BAY (ORE)

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

COPECODS

Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

COPEPOD NAUPLII

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

COPEPODA

Planktonic Crustacea of the Reservoir of Cubillas Near Granada, (In Spanish),
W77-00683 1002 2H

COPEPODS

Phylogeny of the Family Calanidae(Copepoda) on the Basis of a Comparative Morphological Analysis of its Characters,
W77-00394 1001 5C

Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-02820 1006 5C

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-07134 1015 5C

Evaluation of Two Methods for Calculating Freshwater Zooplankton Production, (In Russian),
W77-07228 1015 7B

Study on Respiratory Metabolism Modifications in Acartia clausi (Crustacea: Copepoda) Populations after Passage through the Cooling Circuit of a Power Plant,
W77-07305 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

Studies on the Effect of Temperature on the Egg Laying of Three Species of Calanoid Copepods in the Laboratory (Acartia Tonsa, Temora Longicornis, and Pseudocalanus Elongatus),
W77-07391 1015 5C

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Effects of Chlorine on the Copepod, Acartia Tonsa,
W77-11308 1022 5C

Long-Term Biotoxicity of Chlorine Species to Copepod Populations,
W77-12260 1024 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Toxicity Relationships to Copper Forms in Natural Waters,
W77-01304 1003 5C

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

Potential Roles of Metal-Ligands in the Marine Environment,
W77-01308 1003 5B

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Trace Elements in Soils of the Dnieper-Bug Liman, (In Ukranian),
W77-02258 1005 2G

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-05490 1011 5G

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Effect of Metals on Photosynthesis of Marine Phytoplankton, (In Russian),
W77-08160 1017 5C

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connecticut Rivers,
W77-08814 1018 5B

Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

The Effect of Copper on Competition Between Marine Algae,
W77-10051 1020 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Compounds of Zinc and Copper in Sewage Sludge Determined by Electron Spectroscopy,
W77-11482 1022 5A

Distribution of Cadmium, Zinc and Copper in the Mussel Mytilus Edulis. Existence of Cadmium-Binding Proteins Similar to Metallothioneins,
W77-11519 1023 5C

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: I. Supply of Copper, Zinc, and Manganese,
W77-11954 1023 3C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

COPPER ACCUMULATION

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

COPPER:CARBON RATIOS

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

COPPER COMPOUNDS

Acclimation and Tolerance of Artemia Salina to Copper Salts,
W77-04044 1008 5C

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Algae in Copper Treated Fish Ponds,
W77-05860 1012 5C

COPPER CORROSION (PIPES)

Contamination of Drinking Water by Corrosion of Copper Tubes,
W77-10735 1021 5B

COPPER DEFICIENCY (PLANTS)

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

COPPER HYDROXY ION

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

COPPER ION

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

COPPER IONS

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

COPPER ORE PROCESSING

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

COPPER REMOVAL

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

COPPER SULFATE

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Policy Regarding the use of Copper Compounds as Aquatic Herbicides in Maine.
W77-06366 1013 5G

Copper Sulfate Fights Root Growth in Sewer Systems,
W77-06991 1014 8G

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Metal Finishing Plant Waste Water Purifcn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

COPROSTANOL

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

CORAL

The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

Inventory of Benthic Organisms and Plankton at Mokapu, Oahu,
W77-07798 1016 2L

CORAL GROWTH

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

CORAL REEF GROOVE

Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

CORAL REEF WATERWAY (FLA)

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

CORDGRASS

Photosynthate Distribution in Natural Stands of Salt Water Cordgrass,
W77-12173 1023 2I

CORDILLERAN GLACIERS

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

CORE ANALYSES

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

CORE DRILLING

Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

Preliminary Summary of the 1976 Atlantic Margin Coring Project of the U.S. Geological Survey,
W77-09089 1018 2L

Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

CORE LOGGING
Seasonal Variations of Chemical Constituents in Annual Layers of Greenland Deep Ice Deposits,
W77-03773 1008 2C

Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

Preliminary Summary of the 1976 Atlantic Margin Coring Project of the U.S. Geological Survey,
W77-09089 1018 2L

CORE STORAGE
A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

COREGONIDS
The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

COREGONUS
Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

COREGONUS SPP.
Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

CORES
Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

Study of an Ice Core to the Bedrock in the Accumulation Zone of an Alpine Glacier,
W77-08846 1018 2C

Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

A Method for Sectioning Saturated Soil Cores,
W77-09436 1019 2G

A Simple Hand Corer for Shallow Water Sampling,
W77-09715 1020 7B

Vertical Drainage in Field Cores,
W77-12304 1024 2G

Binary Gas Diffusion of Methane-Nitrogen Through Porous Solids,
W77-12323 1024 2F

COREXIT 7664
Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

COREXIT 9527
Some Dissenting Remarks on 'Deleterious Effects of Corexit 9527 on Fertilization and Development',
W77-09593 1019 5C

CORIO BAY (VIC)
Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

CORMORANT
Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

CORMORANTS
Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

CORN
Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

CORN (FIELD)
Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

Irrigation of Corn with Simulated Municipal Sewage Effluent,
W77-00610 1002 5E

Precipitation of Calcium and Strontium Sulfates Around Plant Roots and Its Evaluation,
W77-01514 1003 2I

Activity of Nitrate Reductase in the Aboveground Part of Corn Under Conditions of Salinization of the Medium, (In Russian),
W77-01599 1004 3C

Irrigation of Corn with Effluents from Fermentation and Yeast-Producing Plants (Oroshenie kukuruzy stochnymi vodami gidrolizno-drozhzhevogo proizvodstva),
W77-01645 1004 5D

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Nutrient Dilution-Antagonism Effects in Corn and Snap Beans in Relation to Rate and Source of Applied Potassium,
W77-02288 1005 3F

Nutrient Distributions in a Spodosol During Corn Growth,
W77-02516 1005 5B

Amino Acid and Fractional Composition of Protein of the Vegetative Mass of Corn at Different Levels of Mineral Nutrition and Water Supply, (In Russian),
W77-02918 1006 2I

Effect of Method of Nitrogen Application on Corn (Zea Mays L.) Grown on Irrigated Sandy Soil,
W77-03071 1006 3F

Effect of Drought Stress Frequencies at Different Growth Stages on Corn Yield,
W77-03143 1007 3F

Determining the Most Profitable Nitrogen Fertilization for Corn Production,
W77-03172 1007 3F

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

Soil Potassium Relationships as Indicated by Solution Equilibrations and Plant Uptake,
W77-03395 1007 2G

Yield Responses of Two Maize Cultivars Following Short Periods of Water Stress at Tasseling,
W77-03628 1008 3F

Reaction Products of Polyphosphates and Orthophosphates with Soils and Influence on Uptake of Phosphorus by Plants,
W77-03636 1008 3F

Corn Yield and Nutrient Uptake as Affected by Water-Table Depth and Soil Submergence,
W77-06095 1012 3F

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

The Influence of Applied Phosphorus, Manure, or Lime on Uptake of Lead from Soil,
W77-09435 1019 5B

Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

Evaluation of an Evapotranspiration Model for Corn,
W77-09941 1020 2D

The Resistance of Intact Maize Roots to Water Flow,
W77-10271 1021 2G

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

Mulch, Nitrogen, and Irrigation Effects on Growth, Yield, and Nutrient Uptake of Forage Corn,
W77-11390 1022 3F

Experimental Evaluation of a Crop Climate Simulation Model for Indian Corn (Zea Mays L.),
W77-11631 1023 3F

Nutrient Uptake by Corn and Grain Sorghum Silage as Affected by Soil Type, Planting Date, and Moisture Regime,
W77-11948 1023 3F

Application of a Two-Variable Mitscherlich Function in the Analysis of Yield-Water-Fertilizer Relationships for Corn,
W77-11961 1023 3F

Evaluation of an Electronic Foliometer to Measure Leaf Area in Corn and Soybeans,
W77-12118 1023 7B

Sprinkler Application of P and ZN Fertilizers,
W77-12123 1023 3F

Corn Growth as Affected by Ammonium vs. Nitrate Absorbed from Soil,
W77-12124 1023 3F

Defoliation and Fertilizer Nitrogen Effects on Nitrate-Nitrogen Profiles in Maize,
W77-12131 1023 3F

Evaluation of Sulfur-Coated Urea (SCU) Applied to Irrigated Potatoes and Corn,
W77-12132 1023 3F

Scheduling Center Pivot Sprinkler Irrigation Systems for Corn Production in Eastern Colorado,
W77-12138 1023 3F

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

New 'Lateral Move' Sprinkler Cuts no Corners,
W77-12531 1024 3F

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

Conservation Tillage - Effects on Crop Production and Sediment Yield,
W77-12626 1024 3F

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

CORNISH PILCHARD (EGGS)
Seasonal Changes in Dimensions and Viability of the Developing Eggs of the Cornish Pilchard (Sardina Pilchardus Walbaum) Off Plymouth,
W77-05825 1012 2L

CORNWALL COAST (U.K.)
An Assessment of the Pollution of Cornish Coastal Waters,
W77-04061 1008 5B

COROPHIIDAE
Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

CORPS OF ENGINEERS
Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

CORPUS CHRISTI BAY (TEX)
Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

CORPUS CHRISTI PASS (TEX)
Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

CORPUS CHRISTI (TX)
Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

CORRELATION ANALYSIS
Stochastic Characteristics of Sediment Motions,
W77-01140 1003 2J

Environmental Factors of Human Leukemias, (In Polish),
W77-01562 1004 5C

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

Correlation Analysis of Hydrometeorological Data,
W77-03086 1007 2A

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

Relation of Erosion to Sediment Yield,
W77-04986 1010 2J

Some Patterns in the Microstructure of the Snow-Depth Field in the Mountain Regions,
W77-06302 1013 2C

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Use of Quantitative Correlations Between Microorganisms for River Pollution Evaluation, (In Russian),
W77-07482 1015 5B

Apparent Regional Skew,
W77-07484 1015 2E

New Forms of Correlation Relationships Between Positive Quantities Applied in Hydrology,
W77-07659 1016 2A

Missouri River Temperature Effects in the Transition from Dunes to Plane Bed,
W77-10572 1021 2E

Autocorrelation Characteristics of Hydrometeorological Data of the United States,
W77-10805 1022 2B

Investigations on Precipitation from Various Locations in Norway 1965-71,
W77-11785 1023 2B

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Hydrogeochemical Relationships Using Partial Correlation Coefficients,
W77-12808 1024 2F

CORRELATION COEFFICIENTS
Autocorrelation Characteristics of Hydrometeorological Data of the United States,
W77-10805 1022 2B

CORROSION
Influence of the Supramolecular Marine Environment on Pitting Corrosion,
W77-00890 1002 8G

Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

Effect of Zinc-Coated Culverts on Vertebrate and Invertebrate Fauna in Selected Maine Streams,
W77-03170 1007 5C

Pumping Systems: The Simpler, The Better,
W77-06856 1014 8C

New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

Cathodic Projection of Borehole Casing,
W77-07297 1015 8G

Method of Separation of Fission and Corrosion Products and of Corresponding Isotopes from Liquid Waste,
W77-08020 1016 5D

Sewers Under Attack: The Hydrogen Sulphide Problem,
W77-10548 1021 5D

Contamination of Drinking Water by Corrosion of Copper Tubes,
W77-10735 1021 5B

CORROSION CONTROL
Water Conditioning Device,
W77-01727 1004 5F

Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

Internal Treatments for Boilers Operating Above 1200 PSI,
W77-03803 1008 8G

Epoxy Mortar and Coating Provide New Life for Invert.
W77-04667 1010 8F

The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

How to Deal with Pitting and Corrosion.
W77-06869 1014 8G

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

Cathodic Projection of Borehole Casing,
W77-07297 1015 8G

Aerators Control Lift Station Odor and Corrosion,
W77-08567 1017 5G

Corrosion Avoidance in Water and Sewage Pipelines,
W77-09832 1020 8F

PVC Lining--The Answer to Corrosive Attack by H2S in Concrete Sewers and Structures.
W77-09835 1020 8G

Collection, Treatment and Reutilization of Waste Waters in Arid Zones of the Middle East,
W77-10591 1021 5D

Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

Use of the Experimental Water Stabilization Station at the Novomyl'sk Water Intake in Rovno, (In Russian),
W77-12893 1024 8G

CORROSION CONTROL *SCALING

Reduction of Deposit Formation in Heat Exchangers (Snizhenie osadkoobrazovaniya v teploobmennoi apparature),
W77-03808 1008 8G

CORROSION RATES

Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

CORRUGATED BOARD

Wastewater Problems and Economy (Abwasserprobleme und Wirtschaftlichkeit),
W77-04818 1010 5D

CORRUGATED PIPE

Flow in Corrugated Pipes,
W77-03744 1008 8B

CORRUGATED SHEET SPRAYERS

Application of Corrugated Sheet Sprayers for Water Purification (Die Anwendung von Wellbahnrieslern in der Wasseraufbereitung),
W77-08543 1017 5F

COST

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

COST ALLOCATION

A Balanced Regional Input-Output Model for Identifying Responsibility for Pollution Created by Industries Which Serve National Markets,
W77-00382 1001 5G

The Development of Costs Recovery Scheme: Suggested Approaches for Municipal or Regional Waste Water Treatment Plants,
W77-08085 1016 6C

Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

An Optimal State Water Law: Fixed Water Rights and Flexible Market Prices,
W77-09587 1019 6E

Impact of Municipal Water and Sewage Charges on Industry,
W77-09921 1020 5G

COST ALLOCATIONS

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

COST ANALYSIS

Energy Conservation Practices in Municipal Sludge Management,
W77-00018 1001 5D

Discounted Cash Flow Analysis to Select Equipment,
W77-00049 1001 5D

The Relevance of Technological Change in Long Term Water Resource Planning,
W77-00113 1001 6B

The Economic Water Supply in Idaho,
W77-00538 1002 6B

An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

The Cost-Effectiveness Approach in Analyzing a Water Supply Project for the Santa Elena Peninsula, Ecuador,
W77-01270 1003 6B

Clearing an Alligator Juniper Watershed with Saws and Chemicals: A Cost Analysis,
W77-01430 1003 4D

Water Pollution Control Act of 1972, Economic Impacts, Chemical and Allied Industries,
W77-01960 1004 5G

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

Innovations in Sewer Design and Construction,
W77-03399 1007 8G

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

An Economic Evaluation of Deep Tank Aeration for Wastewater Treatment,
W77-03580 1007 5D

Water Pollution Control Act of 1972, Economic Impacts, Incidence of Costs, Distribution of Water Pollution Control Costs.
W77-04306 1009 5G

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

Bureaucratic Supply and Legislative Demand: Implications for Water Resources Planning,
W77-05055 1010 6B

A Mathematical Model for Predicting Water Demand, Waste Water Disposal and Cost of Water and Waste Water Treatment Systems in Developing Countries,
W77-05328 1011 5D

Optimizing Costs of Waste Treatment Facilities Using Value Analysis,
W77-06156 1013 5D

Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A--Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B--Subterrene Cost Analyses,
W77-06664 1014 8A

Estimating Costs of Waste Water Sludge Disposal,
W77-07861 1016 5E

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

The Cost of Water Supply Utility Management,
W77-09209 1019 6B

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

EPA Indexes Show Costs Rising at Quicker Pace.
W77-10589 1021 5D

Planning Model for Simulating Distribution and Cost in a Regional Water Supply System,
W77-10822 1022 6A

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

Sensitivity of Desalted Water Costs from Various Processes to Changing Energy Prices,
W77-11072 1022 3A

Arizona Pump Water Budgets, 1977. (Maricopa, Pima, Pinal, Cochise and Greenlee Counties),
W77-11431 1022 8C

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

COST-BENEFIT ANALYSIS

Computer Evaluation of Sludge Handling and Disposal Costs,
W77-00012 1001 5D

Sludge Management Alternatives for Coastal Cities,
W77-00014 1001 5E

Sludge Disposal Alternatives for Boston,
W77-00016 1001 5E

An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

Flood Mitigation Strategies: The Role of Insurance and Structural Measures,
W77-00934 1002 6F

COST-BENEFIT ANALYSIS

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

Benefit-Cost Studies in the Pahang River Basin Study (Malaysia),
W77-00947 1002 4A

Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

Economics of Environmental Control Policies,
W77-02047 1004 6G

Panel 'C' - Toxic Substances,
W77-02054 1004 6G

Agricultural and Other Non-Point Sources of Water Pollution: Non-Point Sources and Cost Effectiveness,
W77-02057 1004 5G

Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

Flow Data Collection for Infiltration-Inflow Analysis,
W77-02334 1005 5D

Economics of Storm Protection,
W77-02672 1006 6F

A Cost-Risk-Benefit Analysis of Toxic Substances,
W77-02844 1006 5G

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

The Limits of Cost-Benefit Analysis as a Guide to Environmental Policy,
W77-04561 1009 5G

Bureaucratic Supply and Legislative Demand: Implications for Water Resources Planning,
W77-05055 1010 6B

Introduction and Overview,
W77-05669 1012 6B

Optimizing Costs of Waste Treatment Facilities Using Value Analysis,
W77-06156 1013 5D

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Flood Management: Who Benefits and Who Pays,
W77-08303 1017 6F

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Recreational Water Resources Problems.
W77-08711 1018 6B

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Engineering-Economic Analysis of Shore Protection Systems: A Benefit/Cost Model,
W77-10905 1022 2H

Analysis of the Impact of Delaying Compliance with 1977 Water Quality Standards,
W77-11453 1022 5G

Disasters as a Necessary Part of Benefit-Cost Analyses,
W77-11765 1023 6B

Advanced Sewage Treatment Fails Cost-Environmental Benefit Test.
W77-12431 1024 5G

EPA Sets Rules on 'Ineligible' Sewers.
W77-12460 1024 5G

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

COST-BENEFIT RATIO

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

Bureaucratic Supply and Legislative Demand: Implications for Water Resources Planning,
W77-05055 1010 6B

COST-BENEFIT THEORY

Bureaucratic Supply and Legislative Demand: Implications for Water Resources Planning,
W77-05055 1010 6B

COST COMPARISON

Automatic Dissolved Oxygen Control,
W77-11752 1023 5D

COST COMPARISONS

Discounted Cash Flow Analysis to Select Equipment,
W77-00049 1001 5D

The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

Comparative Costs of Erosion and Sedimentation Control Measures,
W77-00794 1002 4D

A Comprehensive Systems Engineering Study of the True Economic Value of Unpolluted Water Versus Varying Degrees of Polluted Water,
W77-02220 1005 5G

Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A--Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B--Subterrene Cost Analyses,
W77-06664 1014 8A

What Lies Ahead for PAC,
W77-08541 1017 5D

Sodium Bicarbonate Treats Acidic Industrial Wastes,
W77-10347 1021 5D

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation,
W77-10540 1021 3C

EPA Indexes Show Costs Rising at Quicker Pace.
W77-10589 1021 5D

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

Sensitivity of Desalted Water Costs from Various Processes to Changing Energy Prices,
W77-11072 1022 3A

Arizona Pump Water Budgets, 1977. (Maricopa, Pima, Pinal, Cochise and Greenlee Counties),
W77-11431 1022 8C

The Waste Water Treatment Bergstrasse - Possibilities and Selection of the Sludge Treatment (Die Klaeranlage Bergstrasse - Moeglichkeiten und Wahl des Schlammbehandlungs-systems),
W77-11711 1023 5D

Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

COST EFFECTIVENESS

Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

COST-EFFECTIVENESS ANALYSIS
The Cost-Effectiveness Approach in Analyzing a Water Supply Project for the Santa Elena Peninsula, Ecuador,
W77-01270 1003 6B

COST ESTIMATES
Water Pollution Control Act of 1972, Economic Impacts, State and Local Revenue Expenditures.
W77-04305 1009 5G

COST FUNCTIONS
Network Evaluation of Wastewater Collection Economics,
W77-08331 1017 5D

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

COST MINIMIZATION
A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

Economic Optimum Record Length,
W77-00117 1001 4A

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

Pumping Policies in Water Supply,
W77-01177 1003 4A

Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Least Cost Control Strategies in Urban Drainage Design -- A Dynamic Programming Approach,
W77-04007 1008 4A

Optimal Design of Multilevel Branching Sewer Systems,
W77-05192 1011 5D

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

Minimum Cost Design Using a Pre-Planned Nodal Search Method,
W77-05246 1011 4A

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

COST MINIMIZATION MODEL
Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

COST OPTIMIZATION
Optimizing Costs of Waste Treatment Facilities Using Value Analysis,
W77-06156 1013 5D

COST REPAYMENT
The Development of Costs Recovery Scheme: Suggested Approaches for Municipal or Regional Waste Water Treatment Plants,
W77-08085 1016 6C

United States V Tulare Lake Canal Company (Reclamation Laws Concerning Sale of Land in Excess of 160 Acres).
W77-08151 1017 6E

COST-RISK BENEFIT ANALYSIS
A Cost-Risk-Benefit Analysis of Toxic Substances,
W77-02844 1006 5G

COST SHARING
User Charges in Inland Navigation Policy,
W77-08604 1018 6C

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

COST TRANSFER
Bureaucratic Supply and Legislative Demand: Implications for Water Resources Planning,
W77-05055 1010 6B

COSTS
Sewering The City of New York,
W77-00070 1001 5D

A Systems Approach to the Economics of Waste Handling,
W77-00745 1002 5D

An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

Paying to Pollute.
W77-00972 1002 5G

Energy for Water,
W77-01273 1003 6D

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Future Environmental Needs and Costs,
W77-02044 1004 6G

Introductory Remarks on Environmental Control Strategies,
W77-02048 1004 6G

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

Sludge - Where Will We Put It,
W77-03424 1007 5E

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

The Symmetry of Effluent Charges and Subsidies for Pollution Control,
W77-03962 1008 5G

Water Pollution Control Act of 1972, Economic Impacts, Incidence of Costs, Distribution of Water Pollution Control Costs.
W77-04306 1009 5G

Oil Conservation and Reclamation,
W77-04455 1009 5D

Handling Dairy Wastes,
W77-04610 1010 5B

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Water and Paper (L'eau et le papier),
W77-04812 1010 5D

Introduction and Overview,
W77-05669 1012 6B

The Paper Industry's Enviroeconomics,
W77-05700 1012 5D

How Much Pollution Control for What Price,
W77-06179 1013 5G

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

Subsurface Injection-How Much Does It Cost,
W77-07011 1014 5E

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Estimating Costs of Waste Water Sludge Disposal,
W77-07861 1016 5E

Save Sludge Handling Costs by Level Control,
W77-07868 1016 5D

Cost of High Quality Waste Water Treatment for Reuse,
W77-07930 1016 5D

COSTS

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

Status of Reverse Osmosis Desalination Technology,
W77-08225 1017 3A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

Make Money by Computer,
W77-08730 1018 5D

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Water Supply Economics,
W77-08863 1018 6B

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Low Cost Phosphorus Removal at Reno-Sparks, Nevada,
W77-09849 1020 5D

The Day They Almost Abandoned the Orange-Fish Tunnel,
W77-10077 1020 8A

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

Sludge Disposal Strategy: Processes and Costs,
W77-10609 1021 5E

One Process Step Can Be Skipped: Biological-Chemical Waste Water Treatment Plant Becoming Cheaper (Et prosesstrinn kan sioyfes: biologisk-kjemiske renseanlegg blir billigere),
W77-10631 1021 5D

Disasters as a Necessary Part of Benefit-Cost Analyses,
W77-11765 1023 6B

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

Methodology for Evaluating the Cost of Urban Stormwater Quality Management,
W77-12075 1023 6B

Advanced Sewage Treatment Fails Cost-Environmental Benefit Test.
W77-12431 1024 5G

A Model to Predict Total Energy Requirements and Economic Costs of Irrigation Systems,
W77-12503 1024 3F

Continuing Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants.
W77-12586 1024 5D

The Production of Water from Geothermal Reservoirs: Some Economic Considerations,
W77-12682 1024 3A

Water Quality Research.
W77-12900 1024 5G

COTIDAL CHARTS

Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

COTTON

Change in the Proportion of Organophosphorus Compounds in Cotton Variety 'Tashkent-2' Under the Effect of a Moisture Deficit, (In Russian),
W77-01603 1004 3F

Response of Cotton to Nitrogen and Water in a Tropical Environment. III. Fibre Quality,
W77-01910 1004 3F

Water Management of Short-Season High-Density Cotton,
W77-02164 1005 3F

Effect of Lime on Boron Transport to and Uptake by Cotton,
W77-02282 1005 3F

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Content of Free Amino Acids in Irrigated and Unirrigated Typical Sierozem Soils, (In Russian),
W77-05045 1010 2G

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

Effects of Brackish Water Irrigation on Yield and Development of Cotton,
W77-11067 1022 3C

Irrigation with Brackish Water: Chemical and Hydraulic Changes in Soils Irrigated with Brackish Water Under Cotton Rotation,
W77-11071 1022 3C

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

Seasonal Variations in Stomatal Resistance in Cotton,
W77-11108 1022 3F

Response of Dryland Cotton Plant Growth, Soil-Water Uptake, and Lint Yield to Two Extreme Types of Tillage,
W77-11118 1022 3F

Growth Rate and Nutrient Uptake of Two Cotton Cultivars Grown Under Irrigation,
W77-11393 1022 3F

Effects of Irrigation History on Responses of Cotton to Subsequent Water Stress,
W77-11430 1022 3F

Assessment of the Salinization of Irrigated Soils of Cotton Fields by Aerial Photos, (In Russian),
W77-11475 1022 3C

Influence of Nitrogen, Narrow Rows, and Plant Population on Cotton Yield and Growth,
W77-11956 1023 3F

Stomatal Response to Leaf Water Potential as Affected by Preconditioning Water Stress in the Field,
W77-11959 1023 3F

Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Effect of Leaf Shape on Response of Cotton to Plant Population, N Rate, and Irrigation,
W77-12534 1024 3F

Irrigation Management of Short-Season, High-Density Cotton,
W77-12607 1024 3F

Influence of Seed Pretreatments on Salt Tolerance of Cotton During Germination,
W77-12831 1024 3C

COTTONTAIL RABBIT

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

COTTONTAIL RABBITS

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

COTTONWOOD CREEK (CA)

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

COTTUS COGNATUS

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

COUNTY PLANNING

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

COUPLING PHENOMENA (SOILS)
Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

COURT DECISIONS
Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

COVENANTS
Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

COVER CROPS
Grazing Systems and Watershed Management: A Look at the Record,
W77-05936 1012 4D

COW GREEN DAM (ENGLAND)
A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

COW MANURE
Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

COWANESQUE RIVER (PENN)
Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

COWPEAS
Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

COWS
Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

COXSACKIEVIRUS
A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

COXSACKIEVIRUS B-1
A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

COXSACKIEVIRUS B3
Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

CRABS
Studies on the Incidence of Encysted Larvae of Paragonimus Mivazakii Kamo Et Al, 1961 in the Crab Potamon Dehaani in Shizuoka Prefecture, Japan, (In Japanese),
W77-01036 1002 5C

Temperature Variation in Fiddler Crab Microhabitats,
W77-01058 1003 5C

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

Relationships of Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (Cancer Magister),
W77-04040 1008 5C

Effects of Constant and Cyclic Temperature Regimes on the Pelagic Larval Development of a Brachyuran Crab,
W77-05551 1011 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Interaction of Temperature and Salinity on Oxygen Consumption of the Estuarine Crab Panopeus Herbstii,
W77-07375 1015 5C

The Effect of Salinity and Cyclic Temperature on Larval Development of the Mud-Crab Rhithropanopeus Harrisii (Brachyura: Xanthidae) Reared in the Laboratory,
W77-07384 1015 5C

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Acute Temperature and Low Dissolved Oxygen Tolerances of Brachyuran Crab (Cancer Irroratus) Larvae,
W77-11332 1022 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

CRABTREE CREEK WATERSHED (NC)
Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

CRACKS
The Application of Fracture Mechanics to the Problem of Crevasse Penetration,
W77-02461 1005 2C

Penetration Depth of Closely Spaced Water-Free Crevasses,
W77-08052 1016 2C

CRANGON
The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

CRANKCASE WASTES
Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

CRASPEDACUSTA-SOWERBYI
About the Presence of the Micromedusae Craspedacusta Sowerbyi Lake in the Umbrian Course of Tiber River, (In Italian),
W77-12467 1024 2I

CRASSOSTREA-GIGAS
First Observations on the Introduction of the Fauna Associated with the Japanese Oyster Spat Crassostrea Gigas (Thunberg), Imported on the Atlantic Coast of France, (In French),
W77-12296 1024 2L

CRASSOSTREA VIRGINICA
The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

CRASSULACEAN ACID METABOLISM
Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

CRAYFISH
Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

CRESOLS
Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

CREVASSES
The Application of Fracture Mechanics to the Problem of Crevasse Penetration,
W77-02461 1005 2C

Penetration Depth of Closely Spaced Water-Free Crevasses,
W77-08052 1016 2C

CRICKETS
Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

CRICOSPHAERA
Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

CRICOTOPUS BICINCTUS
Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

CRICOTOPUS MACKENZIENSIS
Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

CRICOTOPUS-SILVESTRIS
Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

CRIMINAL PENALTIES
Waters; Penalties, Violations,
W77-06078 1012 6E

CRISTIGERA
Synergistic Effects of Marine Pollution,
W77-10202 1021 5C

CRITERIA
Methodology and Criteria for Siting Energy Plants in Idaho,
W77-05006 1010 6G

CRITICAL DEPTH
Brink Depth Method in Rectangular Channel,
W77-09695 1020 8B

CRITICAL FLOW
Brink Depth Method in Rectangular Channel,
W77-09695 1020 8B

CRITICAL STORM DURATION
Critical Duration of Rainfall for Flood Estimation,
W77-05342 1011 2B

CRITICAL THERMAL MAXIMA (CTM)
Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

CRITICAL WATER PROBLEMS (WESTERN US)
An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

CROCODILE RIVER
Damming the Crocodile.
W77-01472 1003 6D

CROOKED CREEK (NB)
Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

CROOKED RIVER (ME)
Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

CROOMONAS SALINA
Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

CROP MANAGEMENT
Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

CROP MANAGEMENT PRACTICES
The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

CROP PRODUCTION
A Water Balance Model and Supply Index for Wheat in South Australia,
W77-00444 1001 3F

Environmental Considerations in Expanding Agricultural Production,
W77-00470 1001 6G

Erosion in 1973-74: The Record and the Challenge,
W77-00471 1001 2J

Production Investigations in Irrigated and Non-Irrigated Winter Wheat Stand During the Growing Season, (In Hungarian),
W77-00963 1002 3F

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

Water Management of Short-Season High-Density Cotton,
W77-02164 1005 3F

Desert Food Factories,
W77-02176 1005 3C

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

Seasonal Water Use of Irrigated Pasture Grasses Under Permanently-Set Irrigation as Related to Climatic Factors,
W77-02834 1006 3F

Crop Production in the Arid Zone with Special Reference to Western Rajasthan,
W77-02869 1006 3F

The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

Determining the Most Profitable Nitrogen Fertilization for Corn Production,
W77-03172 1007 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, III. Oilseed Crops,
W77-03634 1008 3F

The Effects of Streamflow Variation on Production and Income of Irrigated Farms Operating Under the Doctrine of Prior Appropriation,
W77-03637 1008 3F

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

Effects of Uneven Spreading of Fertilizer on Crop Yields,
W77-06091 1012 3F

Corn Yield and Nutrient Uptake as Affected by Water-Table Depth and Soil Submergence,
W77-06095 1012 3F

Fertility and Mixed Salinity on Growth and Ca, Mg, Na, P and CI Concentrations of Tomato, Corn, and Sudan Grass Grown in Sand Culture,
W77-06233 1013 3C

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Yield and Nitrogen Utilization by Wheat in Relation to Moisture and Fertility Levels,
W77-06241 1013 3F

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

Growth of Tropical and Temperate Grasses at Palmerston North I. Warm-Season Yields With and Without Irrigation,
W77-08457 1017 3F

Potential of New Summer Grasses in Northland: I. Warm-Season Yields Under Dryland and Irrigation,
W77-08458 1017 3F

Improving Food Crop Production in the Sudan Savanna Zone of Northern Nigeria,
W77-08459 1017 3F

Evaluation of Wheat Plants with Regard to Drought- and Heat-Resistance Under Field Conditions, (In Russian),
W77-08877 1018 3F

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

Simplified Long Term Concept for Evaluating Leaching of Nitrogen from Agricultural Land,
W77-09446 1019 5B

Influence of Long Term Tillage, Crop Rotation, and Soil Type Combinations on Corn Yield,
W77-09969 1020 3F

Effective Precipitation of Various Application Depths,
W77-10168 1021 3F

An Evaluation of Sulfur-Coated Urea as a Preplant Total Season Nitrogen Supply for Trellised Tomatoes,
W77-10283 1021 3F

Maryland Research Finding Guidelines for Sludge Use.
W77-10580 1021 5E

An Economic Analysis of Irrigated Farming with Diminishing Ground Water Reserves,
W77-10748 1021 4B

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

Effects of Brackish Water Irrigation on Yield and Development of Cotton,
W77-11067 1022 3C

Crop Production Potentials in India--A Water Availability Based Analysis,
W77-11091 1022 3F

Response of Oats to Water Deficit. II. Growth and Yield Characteristics,
W77-11101 1022 2I

Grain Sorghum Response to Inundation at Three Growth Stages,
W77-11408 1022 3F

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

Estimation of Net Water Demand of Crops in the Upper Berg River Valley,
W77-11580 1023 3F

Experimental Evaluation of a Crop Climate Simulation Model for Indian Corn (Zea Mays L.),
W77-11631 1023 3F

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

A Perspective on Flood Protection of Agricultural Lands.
W77-11850 1023 6F

Growth and Mineral Composition of Rice at Various Soil Moisture Tensions and Oxygen Levels,
W77-11950 1023 3F

Influence of Nitrogen, Narrow Rows, and Plant Population on Cotton Yield and Growth,
W77-11956 1023 3F

Relationship Between Potato Yield and Oxygen Diffusion Rate of Subsoil,
W77-11963 1023 3F

Yield and Moisture Use Pattern of Rabi Crops Grown Under Rainfed Conditions of Eastern U.P.,
W77-11992 1023 3F

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

Yield and Nitrogen Utilization By Rice as Affected by Method and Time of Application of Labelled Nitrogen,
W77-12121 1023 3F

Seed Coating, Precision Planting, and Sprinkler Irrigation for Optimum Stand Establishment,
W77-12134 1023 3F

Scheduling Center Pivot Sprinkler Irrigation Systems for Corn Production in Eastern Colorado,
W77-12138 1023 3F

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

A Look at Crop Yields Along the Colorado in 2000 AD,
W77-12509 1024 3F

Band Application: A Better Less Costly Way to Fertilize Your Crops,
W77-12528 1024 3F

High-Frequency Trickle Irrigation and Row Spacing Effects on Yield and Quality of Potatoes,
W77-12533 1024 3F

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

Irrigation Management of Short-Season, High-Density Cotton,
W77-12607 1024 3F

Food Production Potential from Home Gardens,
W77-12623 1024 3F

Conservation Tillage - Effects on Crop Production and Sediment Yield,
W77-12626 1024 3F

Evaluation of Nonuniformity in Irrigation and Yield,
W77-12628 1024 3F

Critical Irrigation Management Decisions,
W77-12716 1024 3F

Information Storage and Retrieval for Evaluation of Irrigation Potential,
W77-12723 1024 7C

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Predicted and Actual Yield Decline from Fifty Percent Increase in Salinity of the Colorado River,
W77-12738 1024 3C

System for Managing Saline and Run-off Water for Fruit and Crop Production in Arid Regions of Mexico,
W77-12741 1024 3C

Yields and Acreage as Variables in Planning the Use of Saline Irrigation Water: A Case Study from Iran,
W77-12742 1024 3C

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

Water Quality for Agriculture,
W77-12753 1024 5G

Development and Evaluation of Evapotranspiration Models for Irrigation Scheduling,
W77-12779 1024 3F

CROP PRODUCTION

Tropical Agriculture: Crop Diversity and Crop Yields,
W77-12828 1024 3F

Effect of Date of Final Irrigation on Yield and Yield Components of Sunflowers in a Semiarid Environment,
W77-12829 1024 3F

Regulation of Grain Yield by Photosynthesis in Maize Subjected to a Water Deficiency,
W77-12841 1024 3F

CROP RESIDUES

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

CROP RESPONSE

Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

Response of Wheat Under Sub-Humid Irrigated Conditions to Atmospheric Misting During Grain Filling,
W77-01284 1003 3F

Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Effect of Lime on Boron Transport to and Uptake by Cotton,
W77-02282 1005 3F

Nutrient Dilution-Antagonism Effects in Corn and Snap Beans in Relation to Rate and Source of Applied Potassium,
W77-02288 1005 3F

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Crop Response to Tank Truck Application of Liquid Sludge,
W77-02390 1005 5C

The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

Yield Response of Alfalfa Cultivars and Clones to Several pH Levels in Tatum Subsoil,
W77-03075 1006 3F

Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

Effect of Drought Stress Frequencies at Different Growth Stages on Corn Yield,
W77-03143 1007 3F

Effects of Soil-Moisture Regimes on the Growth of Barley,
W77-03216 1007 3F

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

Isolation and Characterization of Drought Tolerance in a Grain Sorghum (Sorghum Bicolor (L) Moench) Randommating Population,
W77-03623 1008 2I

Yield Responses of Two Maize Cultivars Following Short Periods of Water Stress at Tasseling,
W77-03628 1008 3F

Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
W77-03633 1008 3C

Estimating Relative Leaf Water Content with a Simple Beta Gauge Calibration,
W77-03635 1008 7B

Optimization of Crop Irrigation Strategy Under a Stochastic Weather Regime: A Simulation Study,
W77-03941 1008 3F

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Studies on the Rates of Water Use of Dwarf Wheat and Their Relationship with Potential Values Based on the Climatological Approach,
W77-04314 1009 3F

Water Management in Linseed,
W77-04788 1010 3F

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

Response of Two Peanut Cultivars to Irrigation and Kylar,
W77-06092 1012 3F

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

Fertility and Mixed Salinity on Growth and Ca, Mg, Na, P and Cl Concentrations of Tomato, Corn, and Sudan Grass Grown in Sand Culture,
W77-06233 1013 3C

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Salinity Effects on Rice After the Boot Stage,
W77-06871 1014 3C

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

Effects of Treated Municipal Wastewater and Commercial Fertilizer on Growth, Fiber, Acid-Soluble Nucleotides, Protein and Amino Acid Content in Wheat Hay,
W77-08876 1018 5C

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Effect of Water Stress During Different Stages of Growth of Soybean,
W77-09302 1019 2I

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Sulfur-Coated Fertilizers for Sugarcane: I. Plant Response to Sulfur-Coated Urea,
W77-09640 1020 3F

Evaluation of the Parameters of Soil Phosphorus Availability Factors in Predicting Yield Response and Phosphorus Uptake,
W77-09646 1020 2G

Crop Temperature Modification and Yield Potential in a Dwarf Spring Wheat,
W77-09939 1020 3F

A Technique to Determine Iron Efficiency in Plants,
W77-10280 1021 2G

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

Use of Geothermal Brackish Water for Soil Warming and Vegetable Irrigation,
W77-11066 1022 3C

The Irrigation of Winter Tomatoes in the Arava,
W77-11068 1022 3F

Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Response of Dryland Wheat to Phosphorus Fertilizer as Influenced by Profile Water Storage and Rainfall,
W77-11093 1022 3F

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

Response of Oats to Water Deficit. I. Physiological Characteristics,
W77-11100 1022 2I

Response of Oats to Water Deficit. II. Growth and Yield Characteristics,
W77-11101 1022 2I

Response of Dryland Cotton Plant Growth, Soil-Water Uptake, and Lint Yield to Two Extreme Types of Tillage,
W77-11118 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Grain Sorghum Response to Inundation at Three Growth Stages,
W77-11408 1022 3F

Water Stress and Phenology in Wheat,
W77-11427 1022 3F

Effects of Irrigation History on Responses of Cotton to Subsequent Water Stress,
W77-11430 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

Crop Temperature Reveals Stress,
W77-11434 1022 2L

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Salt and Sodium Affected Soils in Relation to Nitrogen Utilization by Wheat,
W77-11623 1023 3C

Effect of Increasing Foliage and Soil Reflectivity on the Yield and Water Use Efficiency of Grain Sorghum,
W77-11951 1023 3F

Influence of Nitrogen, Narrow Rows, and Plant Population on Cotton Yield and Growth,
W77-11956 1023 3F

Evapotranspiration and Water Use Efficiency by Soybean Lines Differing in Growth Habit,
W77-11965 1023 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Effect of Water Stress on 14CO2 Fixation and Translocation in Wheat During Grain Filling,
W77-12289 1024 3F

Response of Soybean Varieties to Potassium under Rainfed Conditions,
W77-12294 1024 3F

Effect of Date of Final Irrigation on Yield and Yield Components of Sunflowers in a Semiarid Environment,
W77-12829 1024 3F

CROPLAND

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

CROPPING MANAGEMENT

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

CROPPING PATTERNS

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

CROPS

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

Soil Changes Resulting from Cropping,
W77-02284 1005 2G

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Practical Application of Remote Sensing in Agriculture,
W77-08425 1017 3F

Joubert V. State (State Liable for Flood Damage to Crops Caused by Opening of Dam's Floodgates).
W77-10483 1021 6E

Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

CROPS PRODUCTION

A Study of the Recurrence of Rainfall Deficiency in Relation to Rice Crop,
W77-00746 1002 3F

CROPS RESPONSE

Nitrogen Nutrition and Yield of Sugarcane as Affected by N-Serve,
W77-11953 1023 3F

CROSS-LINKING

A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

CROSS-SECTIONS

The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

CROSS-SHELF CURRENTS

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

CROSSFLOW

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

CRUDE OIL

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Some Effects of Petroleum on Estuarine and Marine Micro-Organisms,
W77-04063 1008 5C

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

CRUDE OIL SPILL

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

CRUDE OILS
The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

CRUSHED LIMESTONE
Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

CRUSTACEA
Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

CRUSTACEAN
The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

CRUSTACEANS
Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

Planktonic Crustacea of the Reservoir of Cubillas Near Granada, (In Spanish),
W77-00683 1002 2H

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Gas-Bubble Disease Due to Oxygen Supersaturation in Raceway-Reared California Brown Shrimp,
W77-04403 1009 5C

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Seasonal Distribution and Abundance of Crustacean Zooplankton in Lake Erie, 1970.
W77-05233 1011 5C

Toxicological Characteristics and Symptom-Complex of Acute Phenol Intoxication of Certain Freshwater Crustaceans and Mollusks, (In Russian),
W77-05607 1012 5C

Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Evaluation of Two Methods for Calculating Freshwater Zooplankton Production, (In Russian),
W77-07228 1015 7B

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

Comparative Ecophysiology of Gammarids (Crustacea: Amphipoda) From Marine, Brackish and Fresh-Water Habitats, Exposed to the Influence of Salinity-Temperature Combinations. I. Effect on Survival,
W77-07397 1015 5C

The Effect of Temperature on Size and Structure-II. The Body Musculature of Cyclops Agilis (Koch, Sars),
W77-07433 1015 5C

The Larval Spirurid Nematodes of Fresh-Water Crustaceans: I. The Identification and the Examination of Their Pathogenicity,
W77-07458 1015 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Comparative Study of Cladocera from the 1st Meter of Sea Water, Collected in a Polluted Zone and in Another Relatively Clean Zone, (In French),
W77-07730 1016 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

Accomodation of Daphnia pulex to Altered pH Conditions as Measured by Feeding Rate,
W77-09678 1020 5C

The Ecology of Chydoridae (Cladocera) of Lake Baikal (In Russian),
W77-10064 1020 2H

Vertical Distribution, Composition, and Abundance of Crustacean Zooplankton in the Offshore Waters of Lake Michigan,
W77-11142 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Seasonal Changes of Planktonic Crustacea in Two Newfoundland Lakes,
W77-11417 1022 5C

Marine Cladocera (Crustacea) in the Eutrophicated and Polluted Saronic Gulf (Greece),
W77-11420 1022 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

Ecology of Encrusting Microfauna of Higher Aquatic Plants of the Kiev Reservoir, (In Russian),
W77-12365 1024 2H

Changes in the Vertical Distribution of the Planktonic Crustacea in Lake Tazenat and Lake Pavin (Massif Central, France) During the Year, (In French),
W77-12468 1024 2H

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

Ecology of the Amphipod Pontogammarus Crassus (G. O. Sars) in the Kiev Reservoir, (In Russian),
W77-12930 1024 2H

Nutrition of Bosmina Coregoni Baird (Cladocera), (In Russian),
W77-12931 1024 2I

CRYOGENICS
What's Up with Oxygen,
W77-07919 1016 5D

Use of Oxygen in Activated Sludge Plants (Utilizzazione dell'ossigeno allo stato puro negli impianti a fanghi attivi),
W77-08545 1017 5D

CRYPTOCARYA ALBA
Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77$_6$02858 1006 3B

CRYPTOMONAS EROSA
The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

CRYSTAL GROWTH
Parameterization of Depositional Ice Growth,
W77-07171 1015 2B

The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

CRYSTAL RIVER (FLA)
Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

CRYSTALLIZATION
Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

CRYSTALLOGRAPHY
Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

CRYSTALS
The Polarization Characteristics of Lidar Scattering from Snow and Ice Crystals in the Atmosphere,
W77-06512 1013 2C

Settling Velocities of Small Ice Crystals,
W77-10121 1021 2B

Isotopic, Crystal and Air Bubble Structures of Hailstones,
W77-10126 1021 2B

CTENODISCUS CRISPATUS
Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

CTENOPHORES
Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

CUBA (SAN DIEGO RIVER)
The Method of Calculating Water-Absorbing Forest Belt Under Tropical Conditions of Cuba, (In Russian),
W77-04747 1010 4A

CUBIC CURVED TRIANGULAR ELEMENTS
Numerical Solution for Flow Under Sluice Gates,
W77-09012 1018 8B

CUBIC SPLINES
Smoothing Data with Cubic Splines,
W77-06831 1014 7C

CUCUMBERS
Determination of Morestan in Water, Soil, and Cucumbers by Thin-Layer Chromatography, (In Russian),
W77-07688 1016 5A

CUIVRE RIVER (MO)
Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

CULEBRA (PUERTO RICO)
Water Supply and Waste Disposal, Culebra, Puerto Rico,
W77-06345 1013 5E

CULEX-PIPIENS
A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

CULEX UNIVITTATUS
Epidemics of West Nile and Sindbis Viruses in South Africa with Culex (Culex) Univittatus Theobald as Vector,
W77-11547 1023 5C

CULTIVATED LANDS
Water Permeability of Dark-Chestnut Soils of the Kustanai Oblast, (In Russian),
W77-00501 1001 2G

Structural Composition and Some Problems of the Water Regime of Dark-Chestnut Soils of the Kustanai Oblast in Connection with the Duration of their Cultivation, (In Russian),
W77-02853 1006 2G

CULTIVATION
Soil Bulk Densities after Thirty Years under Different Management Regimes,
W77-00287 1001 2G

Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

Effect of Soil Cultivation, Fertilizers and Preceding Crops on the Accumulation, Retention and Consumption of Moisture by Soil and Winter Wheat Plants, (In Russian),
W77-01736 1004 3F

No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

Water Regime of Central Kara Kum Soils in Connection with Rangeland Afforestation, (In Russian),
W77-04855 1010 2G

Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

CULTIVATION

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

Influence of Long Term Tillage, Crop Rotation, and Soil Type Combinations on Corn Yield,
W77-09969 1020 3F

Influence of Row Spacing and Straw Mulch on First Stage Drying,
W77-10286 1021 2D

New Soil Implement Makes a Good Impression,
W77-11096 1022 3F

Response of Dryland Cotton Plant Growth, Soil-Water Uptake, and Lint Yield to Two Extreme Types of Tillage,
W77-11118 1022 3F

Diurnal Soil Water Regime in the Tilled Plow Layer of a Warm, Humid Climate,
W77-11826 1023 2G

The Development of a Furrow-Mulch Ridger,
W77-12538 1024 3F

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

Conservation Tillage - Effects on Crop Production and Sediment Yield,
W77-12626 1024 3F

CULTIVATION PRACTICES

Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

CULTURAL CONTROL

Effect of Some Pesticides on the Ability of the Filteration of Eel Culture Using Recirculating Filter System, (In Korean),
W77-01497 1003 5C

CULTURAL RESOURCES

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

CULTURALLY EUTROPHIC

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

CULTURE MEDIA

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

CULTURES

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

Fecal Coliform Analysis: Effects of Elevated Temperatures on Quantitative Recovery,
W77-02182 1005 5A

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Membrane Filter Technique for the Quantification of Stressed Fecal Coliforms in the Aquatic Environment,
W77-11736 1023 5A

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

CULTUS LAKE (BC)

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

CULVERTS

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Effect of Zinc-Coated Culverts on Vertebrate and Invertebrate Fauna in Selected Maine Streams,
W77-03170 1007 5C

Ogle V Terminal Railroad Association of St. Louis (Flooding Damages from Railway's Inadequate Culvert Openings).
W77-04385 1009 6E

Epoxy Mortar and Coating Provide New Life for Invert.
W77-04667 1010 8F

Desormeaux V Central Industries, Inc. (Lack of Water for Irrigation Causing Crop Damage),
W77-05075 1010 6E

Nuckolls V Louisiana State Highway Department (Liability for Unauthorized Alteration of Natural Drain),
W77-07277 1015 6E

Predicting Performance of Pipe Culverts Buried in Soil,
W77-08622 1018 8B

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Blumenfeld v San Francisco Bay Conservation and Development Commission (California Statutes Granting Jurisdiction to Conservation Commission Should be Construed so as not to Defeat the Intent of the Legislature).
W77-11180 1022 6E

CUMBERLAND MOUNTAINS (TENN)

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

CUMBERLAND PLATEAU (TENN)

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

CUMBERLAND RIVER (KY)

Barkley Lock Prototype Tests Cumberland River, Kentucky,
W77-02960 1006 8B

CUMMINGS RADIATION INTEGRATOR

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

CUNNER

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

CUNNERS

Respiratory Response of Cunners to Silver,
W77-06789 1014 5C

A Contribution to the Life History of the Cunner, Tautogolabrus Adspersus, in Fishers Island Sound, Connecticut,
W77-07377 1015 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

CUPRIC ION

Toxicity Relationships to Copper Forms in Natural Waters,
W77-01304 1003 5C

Interactions of Cupric Ion with Humic Acid,
W77-07104 1015 5B

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

CURDE OIL

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

CURRENT METERS

Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

Current-Meter Recordings of Low-Speed Turbidity Currents,
W77-08847 1018 2L

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

CURRENT RECORDS

Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

CURRENTS

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-07549 1015 2H

Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

CURRENTS (WATER)

Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Determination of Lagrangian Deformations from Analysis of Current Followers,
W77-00136 1001 2L

On the Influence of Water Currents on the Growth of Hydrorhizal Colonies, (In German),
W77-00506 1001 2I

The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

Numerical Models of Lake Currents,
W77-00722 1002 5B

Sediment Transport in the Coastal Zone,
W77-00840 1002 2L

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

Dynamically Balanced Apparatus for Water Borne Instruments,
W77-01232 1003 7B

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

System for Utilizing Energy in a Fluid Current,
W77-01752 1004 8C

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

Probability Distribution of Concentrations Measured in the Wake of a Continuous Point Source in Coastal Currents,
W77-01927 1004 2H

Theoretical Monochromatic-Wave-Induced Currents in Intermediate Water with Viscosity and Nonzero Mass Transport,
W77-02159 1005 2L

Large-Scale Current Measurements in Lake Huron,
W77-02473 1005 2H

Water Motion on a Beach in the Presence of a Breakwater: 2. Mean Currents,
W77-02475 1005 8B

Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Current Structure and Mixing in the Shelf/Slope Water Front South of New England,
W77-03087 1007 2L

Effects of a Breakwater on Nearshore Currents Due to Breaking Waves,
W77-03297 1007 8B

Evidence of a Westward-Flowing 'Subarctic Countercurrent' in the North Pacific Ocean,
W77-03760 1008 2L

Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Tidal Currents and Estuarine-Type Circulation in Johnstone Strait, British Columbia,
W77-03846 1008 2L

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Description of Wind, Current, and Bottom Pressure Variations on the Continental Shelf in the Northeast Gulf of Alaska from February to May 1975,
W77-05154 1011 2L

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Wave-Induced Circulation in Shallow Basins,
W77-05970 1012 8B

Distribution of Wind-Driven Currents in Bodies of Water and Estimation of the Transport of Water by them,
W77-06306 1013 2H

Effects of Topography on the Circulation in and Near the Surf Zone--Linear Theory,
W77-06500 1013 2L

California Current Eddy Formation: Ship, Air, and Satellite Results,
W77-06523 1013 2L

Lake Currents and Temperatures Near the Western Shore of Lake Michigan,
W77-06687 1014 2H

Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Wind and Current Patterns in an Arctic Coast Lagoon,
W77-07323 1015 2L

Characteristics of the Areas in Which Fast Current Oil Control is Needed,
W77-07741 1016 5G

Tidal and Current Prediction for the Amazon's North Channel Using a Hydrodynamical-Numerical Model,
W77-07743 1016 2L

An Analytical Sea Current Model for Coastal Regions with Application to the New York Bight,
W77-07744 1016 2L

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Thermal Sensor for Measurement of Ocean Current Direction,
W77-08257 1017 2L

Current-Meter Recordings of Low-Speed Turbidity Currents,
W77-08847 1018 2L

Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

The Third London Airport Study,
W77-09037 1018 2L

Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

Somali Current: Recent Measurements During the Southwest Monsoon,
W77-10128 1021 2L

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

On the Calculation of Tidal Currents in Homogeneous Estuaries,
W77-12297 1024 2L

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

CURRENTS (WATER WAVES)

Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

CURTIS BAY (MD)
Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

CURVED FLOW
A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

CURVED STREAM BEDS
Roughness Effects on the Flow Direction Near Curved Stream Beds,
W77-09038 1018 8B

CURVES
Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

Stochastic Analysis of Short-Time Rainfalls,
W77-07671 1016 2B

CUTRINE
Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

CUTTHROAT TROUT
Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W77-07380 1015 5C

CUYAHOGA RIVER (OHIO)
Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

CYANAZINE
Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

CYANIDE
Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Detoxification of Aqueous Waste Streams Containing Cyanide,
W77-09812 1020 5D

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Metal Finishing Plant Waste Water Purificn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Cyanide Mobility in Soils,
W77-11619 1023 5B

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

CYANIDE COMPLEXES
Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

CYANIDE-HEAVY METAL COMPLEXES
Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in Water-Determination of Components and Toxicity of the System-II, Solution by Computer,
W77-01260 1003 5B

CYANIDE-HEAVY METALS
Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

CYANIDE ION RECOVERY
Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

CYANIDE REMOVAL
Automatic Waste Water Purification Control with Cyanide Sensors at Inlet and Outlet Regulating Chemicals. Additions to Improve Cyanide Removal,
W77-05505 1011 5D

CYANIDE WASTES
Electrolytic Treatment of Chromate and Cyanide Wastes with Packed Bipolar Cell, (In Japanese),
W77-07211 1015 5D

CYANIDES
Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

Modification of the Traditional Sequence for the Treatment of Wastewaters from Metal Finishing Installations,
W77-02762 1006 5D

Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

CYANIDIUM-CALDARIUM
Water Status and Distribution of Cyanidium Calderium in Soil,
W77-11788 1023 2G

CYANOPHAGES
Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

CYANOPHTA
Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

CYANOPHYTA
Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

Effect of Polyvinyl Chloride on Water Microflora, (In Russian),
W77-02386 1005 5C

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Biology of Blue-Green Algae of Tide Marshes,
W77-02446 1005 5C

The Effect of Selenite on the Physiological and Morphological Properties of the Blue-Green Alga Phormidium Luridum Var. Olivacea,
W77-02546 1005 5C

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

On the Fauna of a Freshwater Flat in the Elbe Estuary (Germany), (In German),
W77-04087 1008 5C

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Characteristics of Algoflora of Different Sections of the Teterev River, (In Ukranian),
W77-05226 1011 5C

The Effect of Selenium on the Ultrastructure and Physiological Properties of the Blue-Green Alga, Phormidium Luridum var. Olivacea,
W77-05729 1012 5C

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Phytomicrobenthos of the Kurtli Reservoir, (In Russian),
W77-07596 1015 5C

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

Biologically Active Metabolites of Blue-Green Algae and Their Effect on Experimental Animals, (In Russian),
W77-08749 1018 5C

Physical and Chemical Parameters Associated with Phytoplankton Abundance and Periodicity in a Fertilized Fish Pond,
W77-08922 1018 5C

Aspects of Phosphate Utilization by Blue-Green Algae,
W77-09505 1019 5C

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

A Field and Laboratory Study of Oxygen Uptake by Planktonic Blue-Green Algae,
W77-10154 1021 5C

Detection of L-Aspartate: 2-Oxoglutarate Aminotransferase in Two Nitrogen-Fixing Cyanophyta,
W77-10223 1021 5C

Experimental Studies on Changing Algal Populations from Blue-Greens to Greens,
W77-10269 1021 5G

In Vivo Excretions of the Blue-Green Algae Anacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

CYCLES

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

CYCLICITY

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

CYCLING NUTRIENTS

Nutrient Recycling and the Stability of Ecosystems: Implications for Forest Management in the Southeastern U.S.,
W77-01420 1003 2K

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Changes in the Quality of Soil Water for Three Years Following Burning,
W77-05212 1011 4C

The Role of Zooplankton in the Intrabiocoenotic Phosphorus Cycle and Factors Affecting Phosphorus Excretion in a Lake,
W77-05312 1011 5C

Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

Elements in Leaves of a Trembling Aspen Clone by Crown Position and Season,
W77-06441 1013 2I

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

Seasonal Variation in Sediment-Water Exchange of Nutrient Ions in Lake Esrom,
W77-07467 1015 5C

Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

Experimental Use of Emergent Vegetation for the Biological Treatment of Municipal Wastewater in Wisconsin,
W77-11691 1023 5G

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-12852 1024 5C

CYCLING NUTRIETS
The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

CYCLOHEXANE
Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

CYCLONE SEPARATORS
Cyclone with Plural Peripheral Discharge Tubes,
W77-06460 1013 5D

CYCLONES
Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

CYCLOPROPANE CARBOXYLIC ACID
Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

CYCLOPS
Effect of Yeast and Cobalt Chloride in Increasing Survival Rate of Hatchlings of Heteropneustes Fossils (Bloch),
W77-00632 1002 2I

CYCLOPS AGILIS
The Effect of Temperature on Size and Structure-II. The Body Musculature of Cyclops Agilis (Koch, Sars),
W77-07433 1015 5C

CYCLOPS SPP
Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

CYCLOTELLA MENEGHINIANA
Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

CYCLOTRIMETHYLENETRINITRAMINE
Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

CYLINDROSPERMUM SP
Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

CYMODOCEA-NODOSA
A Comparison of Benthic Communities of Strujnjan and Koper Bays with Regard to Their Differing Exposure to Pollution Stress, (In Slovenian),
W77-01024 1002 5C

CYNON RIVER (WALES)
Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

CYPRAZINE
Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

CYPRESS
Salt Tolerance of Prostrate Summer Cypress (Kochia Prostrata),
W77-12133 1023 3C

CYPRINODON
Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

CYPRUS
Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

A Modified Mercury Tensiometer,
W77-11615 1023 2G

CYTOLOGICAL STUDIES
Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Ultrastructural Localization of Lead in Stigeoclonium Tenue (Chlorophycea, Ulotrichales) as Demonstrated by Cytochemical and X-ray Microanalysis,
W77-05230 1011 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

Neoplastic and Possibly Related Skin Lesions in Neotenic Tiger Salamanders from a Sewage Lagoon,
W77-08729 1018 5C

Filament Formation in the Diatom Skeletonema Costatum,
W77-09510 1019 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

Effect of Some Hydromechanical Factors on the Physiological State of Microcystis Aeruginosa Kuetz. Emend Ekenk, (In Russian),
W77-12321 1024 2I

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

CZECHOSLAVAKIA
A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

CZECHOSLOVAKIA
The Environment and the Structure of Social Goals,
W77-00181 1001 5G

Water Resource Management in the Czechoslovakian Paper Industry During the Fifth Five-Year Plan Period (Vodni hospodarstvi papirenskeho prumyslu CSR v pate petiletce),
W77-02578 1006 3E

Fluorine in Drinking Water of Eastern Slovakia, (In Russian),
W77-03056 1006 5A

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

Nitrogen and Irrigation in Forage Crop Rotations, (In German),
W77-12996 1024 3F

D'IBERVILLE FIORD (CANADA)
A Canadian Arctic Fjord with Some Comparisons to Fjords of the Western Americas,
W77-03977 1008 2L

DABS
Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

DABULENI-POTELU-CORABIA STATION (ROMANIA)
Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

DACE
Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

DAGESTAN ASSR
Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

DAILY FLOW
A Stochastic Model for the Simulation of Daily Flows,
W77-11603 1023 2E

DAILY RAINFALL
Simulation of Daily Rainfall Series Using Markov Chain Models,
W77-07660 1016 2A

DAIRY CATTLE
Eutrophication Potential of Dairy Cattle Waste Runoff,
W77-09509 1019 5C

DAIRY FARMS
Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

DAIRY INDUSTRY
Manure Disposal, Pollution Control, and the New York Dairy Farmer,
W77-01528 1003 5D

Application of Ultra Filtration/Reverse Osmosis Technique for the Fractionation of Cheese Whey - A Waste Disposal of the Dairy Industry,
W77-02598 1006 5D

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries Category 7, Dairy Products.
W77-04302 1009 5G

Handling Dairy Wastes,
W77-04610 1010 5B

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Dairy Effluent Electroflotation Purifier-Having Electrode Units in Alternative Rows with Gap Control,
W77-05500 1011 5D

Benefits of Spreading Whey on Agricultural Land,
W77-06215 1013 5D

Production of Gibberellic Acid Using a Dairy Waste as the Basal Medium,
W77-06216 1013 5D

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

Enzymatic Treatment of Dairy Effluents,
W77-08937 1018 5D

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Irrigating with Wastewater in Sonoma County,
W77-10624 1021 5D

DAIRY MANURE
Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

Dairy Manure Can Be Used Safely,
W77-09389 1019 5G

DAIRY PRODUCTS
Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries Category 7, Dairy Products.
W77-04302 1009 5G

DAIRY WASTES
A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 1006 5C

DALLAS RESERVOIR SYSTEM (TEX)
Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

DAM
Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

Dissolved Gas Data Report, 1974, Columbia and Lower Snake Rivers,
W77-04408 1009 5A

Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

DAM CONSTRUCTION
Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

R26m Dam Plan for the Lowveld.
W77-01478 1003 8A

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

Environmental Impact Analysis: A Case Study of the Environmental Impact of the Construction of a Dam in Zaria Province,
W77-06352 1013 6G

Experience in Construction of a Frozen-Type Dam in Yakutiya,
W77-06529 1013 8A

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Through the Andes.
W77-09687 1020 8A

Save Our Invaluable Land, Inc v Needham (Applicability of FWPCA Amendments to Projects Already Funded).
W77-11199 1022 6E

DAM DESIGN
Flood Standards - The Role of Engineering Institutions,
W77-00935 1002 6F

South Africa's Own Snowy Mountain Scheme,
W77-01374 1003 8C

Change in Big Dam Plan.
W77-01476 1003 8D

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

Sources of Gas Supersaturation in Water,
W77-06100 1012 5B

Design of Gravity Dams, Design Mnual for Concrete Gravity Dams,
W77-07151 1015 8A

DAM EFFECTS
ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

DAM FAILURE
Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976 Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

DAM FAILURE

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

The Dam Busters,
W77-10070 1020 8A

Teton Dam Failure.
W77-12324 1024 8D

DAM FOUNDATIONS

Design of Gravity Dams, Design Mnual for Concrete Gravity Dams,
W77-07151 1015 8A

A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

DAM SITES

Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

DAM TENDER REPORTS

Operating Policy Adaptations for a Reservoir Systems, (Phase I),
W77-07603 1016 4A

Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

DAMAGE

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

DAMAGE TO LICHENS

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

DAMAGES

An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

State Dept of Pollution Control V International Paper Co. (Determination of Fish Value That were Killed by Pollutants).
W77-03498 1007 6E

Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

Surge Effects from Hurricane Eloise,
W77-06085 1012 2L

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

Observations on a Peat Bog's Ability to Withstand Increasing Public Pressure,
W77-07139 1015 5C

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

Cementing Oil and Gas Wells, Part 2 - Casing Inspection and Pipe Handling Methods, Including Thread Make-Up Control,
W77-08327 1017 8F

Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

Avoiding the Perils of Cavitation,
W77-08674 1018 8C

Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

Delaware Bay Ice Conditions, 1977,
W77-10188 1021 2L

Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

Appendix V. Shoreline Damage Survey: An Appraisal with Recommendations,
W77-10904 1022 2H

Chapman v United States (Tort Liability for Submerged Dam in Navigable Stream).
W77-11202 1022 6E

DAMS

The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

Sediment Control at Imperial Dam,
W77-00802 1002 4D

The Role of Sediment Problems in Hydroelectric Development,
W77-00826 1002 4D

Model Study of Riverbed Material in Canyon Ferry Dam Spillway Stilling Basin,
W77-00834 1002 2J

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

Water Power Companies--Eminent Domain,
W77-01117 1003 6E

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Elastic-Plastic Stability Analysis of Mine-Waste Embankments,
W77-02502 1005 8D

Development of Navigation with Locks and Dams,
W77-02943 1006 8B

Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Those Nasty Phosphatic Clay Ponds,
W77-03596 1007 5G

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Multipurpose Development on the Tisza River.
W77-03957 1008 4A

Marshall Ford Dam and Reservoir, Colorado River, Texas; Revision of Flood Control Regulations.
W77-04369 1009 6E

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

Nitrogen Saturation Levels on the Mid-Columbia River, 1965-1971,
W77-04442 1009 5C

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

City of Corpus Christi V Neuces County Water Control and Improvement District No 3 (Water Improvement District Allowed to Supply Water for Domestic Use to Neighboring Town).
W77-06065 1012 6E

State of North Carolina V Federal Power Commission (Rivers Designated for Potential Addition to the System Under the Wild and Scenic Rivers Act).
W77-06069 1012 6E

Obstructions in Streams,
W77-06079 1012 6E

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

Emptiness of a Finite Dam--Time Dependent Theory,
W77-07683 1016 8B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

Polymerization of Concrete Fights Cavitation,
W77-09044 1018 8F

Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

The Importance of Monitoring Change,
W77-09591 1019 5A

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

Comparison of 4-1/2-and 7-In. (6-In. Nominal) Maximum Size Aggregate Mixtures for New Lock and Dam No. 26, Mississippi River,
W77-10978 1022 8F

Chapman v United States (Tort Liability for Submerged Dam in Navigable Stream).
W77-11202 1022 6E

Preliminary Study; The Influence of Construction Step Sequence and Nonlinear Material Behavior on Cracking of Earth and Rock-Fill Dams,
W77-11240 1022 8D

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

Teton Dam Failure.
W77-12324 1024 8D

The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

DANDENONG VALLEY (ASUSTRALIA)
Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

DANUBE RIVER
Hydrogeochemical Investigation of the Danube Water in Austria During the Years 1971 and 1972, (In German),
W77-00406 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

Dispersion Measurement on the Danube,
W77-09040 1018 5B

Descriptive Water Quality (Dispersion) Model for the Danube Section Between Szob and Budapest (A Duna, Szob es Budapest kozotti vonatkozo, leiro jellegu visminosegi (diszperzios) modell),
W77-12412 1024 5B

DANUBE RIVER BASIN
The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

DANUBE RIVER (HUNGARY)
The Effect of Current Velocity and Changes in Water Level on the Composition of the Planktonic Ciliate Population of the Danube River, (In Hungarian),
W77-02236 1005 5C

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

DANUBE RIVER (W. GERMANY)
Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

DAPHNIA
Planktonic Crustacea of the Reservoir of Cubillas Near Granada, (In Spanish),
W77-00683 1002 2H

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-05490 1011 5G

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

Distribution and Isolation of Radioactivity from 74As-Arsenate and 14C-Methanearsonic Acid in an Aquatic Model Ecosystem,
W77-06408 1013 5C

Effect of Varying Oxygen Concentrations on the Filtering Rate of Daphnia Pulex,
W77-06473 1013 5C

Effects of Increased Water Temperature on Daphnia Pulex,
W77-07130 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-09492 1019 5C

Accomodation of Daphnia pulex to Altered pH Conditions as Measured by Feeding Rate,
W77-09678 1020 5C

Filtering Rate Inhibition of Daphnia Pulex in Wintergreen Lake Water,
W77-09910 1020 5C

Daphnia Pulex Pulls Its Weight in Pulp Mill Toxicity Tests,
W77-10718 1021 5A

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

The Biology of Daphnia Magna Straus and the Production of Its Population in Lake Bugaevo (Krasnoyarsk Krai), (In Russian),
W77-12616 1024 2H

DAPHNIA CULTURE
Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

DAPHNIA-LONGIREMIS
Study of the Production Process of Daphnia Longiremis Sars Population from Lake Dalnee by Means of a Mathematical Model, (In Russian),
W77-04055 1008 5C

DAPHNIA-MAGNA
The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

DAPHNIA ZOOPLANKTON
Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

DARCYS LAW
Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

DARK SURVIVAL OF ALGAE
The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

DART VALVE BAILER
Bailing,
W77-04288 1009 8C

DARTERS
Population Dynamics and Species Diversity of Ichthyo-Parasitofauna of the Buffalo National River,
W77-08446 1017 5C

DASHTE-NAZ (IRAN)
The Dashte-Naz Ground-Water Barrier and Recharge Project,
W77-05365 1011 4B

DATA
Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

DATA ACQUISITION
Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

DATA ACQUISITION SYSTEMS
A Controllable Automated Environmental Data Acquisition and Monitoring System,
W77-08441 1017 7C

DATA ANALYSIS
A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

DATA BASE MANAGEMENT SYSTEM
OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

DATA BUOYS
Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

DATA COLLECTING SYSTEMS
Portable Automated Mesonet in Operation,
W77-09131 1019 2B

DATA COLLECTION
Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

DATA COLLECTION PLATFORMS
Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Retransmission of Hydrometric Data in Canada,
W77-02506 1005 7C

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

DATA COLLECTION SYSTEMS
The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

DATA COLLECTIONS
User's Guide for Hydrologic Information Storage and Retrieval System,
W77-00161 1001 10B

State of South Carolina Weather and Crop Summaries,
W77-00282 1001 3F

Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Data Processing: A Review of the Role of the Ministry of Works and Development,
W77-00378 1001 7C

Development of Water Quality Sampling Programs,
W77-00618 1002 5A

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

A Stage-Damage Curve for the Brisbane River (Australia),
W77-00943 1002 4A

Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Nonpoint Pollution and Water Quality Monitoring,
W77-00960 1002 5G

Polluter Discriminant Analysis,
W77-01166 1003 5G

Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

Statistical Properties of Environmental Data: Considerations for Bioaccumulation and Toxicity Studies of Pollutants,
W77-01316 1003 5C

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

National Eutrophication Survey: Data Acquisition and Laboratory Analysis System for Lake Samples,
W77-01788 1004 5A

Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Survey of the Critical Natural, Historic and Recreational Areas in Kentucky.
W77-02063 1004 6B

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

National Environmental Statistical Report,
W77-02447 1005 7C

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Graphical Interpretation of Water Quality Data,
W77-02592 1006 5A

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume II: Procedures and Selected Field Data,
W77-02617 1006 5C

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Urban Drainage Model Comparison for a Catchment in Halifax, Nova Scotia,
W77-02764 1006 2A

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

State and County Area Tabulations for the Colorado River Basin,
W77-03110 1007 7C

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Water Resources Data System,
W77-03728 1008 7C

A Compendium of Lake and Reservoir Data Collected by the National Eutrophication Survey in the Northeast and Northcentral United States.
W77-03784 1008 5C

Demonstration of a State Water Quality Management Information System,
W77-04021 1008 5G

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

Behavior of Fish Influenced by Hotwater Effluents as Observed by Ultrasonic Tracking,
W77-04568 1009 5C

Oceanographic Observations in the Georgia Bight: Data Report for R.V. EASTWARD Cruises E-3-74 (24-30 April 1974) and E-12-74 (23-31 July 1974),
W77-04835 1010 2L

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

Standards for Interchange of Water Resources Data on Computer Media,
W77-05523 1011 7C

Water Quality Information Storage and Retrieval System for Hawaii, Final Report, Phase I and II, (July 1971-October 1973),
W77-05672 1012 5A

Composition of Selected Rain Samples Collected at Menlo Park, California in 1971,
W77-05754 1012 7C

Index of Surface-Water Stations in Texas, October 1976,
W77-05760 1012 7C

Annual Amount of Precipitation in the USSR, According to Corrected Data,
W77-06508 1013 2B

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Littoral Drift Estimates Along the Coastline of Florida,
W77-06882 1014 2L

Physical Environment Atlas of Coastal Alabama,
W77-07322 1015 2L

Maximum 5-Minute and Hourly Rainfalls on Metromex Network, 1971-1975,
W77-07374 1015 2B

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

Remote Sensing Applications in Water Resources Management by the California Department of Water Resources,
W77-08078 1016 7B

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

Activities of the Water Resources Division in California.
W77-08479 1017 7C

Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

Indiana Stream-Temperature Characteristics,
W77-08755 1018 7C

Compilation of Temperature Preference Data,
W77-08767 1018 7C

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

The Cost of Water Supply Utility Management,
W77-09209 1019 6B

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

Sensitivity Analysis of the Water Quality for River-Reservoir Systems Model,
W77-09981 1020 5B

Discharge Data at Water-Quality Monitoring Stations in Arkansas, 1976 Water Year,
W77-09997 1020 7C

Water Quality Program of the U.S. Geological Survey,
W77-10006 1020 5A

Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
W77-10013 1020 7C

A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

Waterlo, A Data Bank and Computer System for River Channel Networks and River Basins in Belgium,
W77-10827 1022 4A

Water Resources Data Bank in New Jersey and Computations of Extreme Flows,
W77-10830 1022 7C

Appendix V. Shoreline Damage Survey: An Appraisal with Recommendations,
W77-10904 1022 2H

Integrated Automatic Water Sample Collection System,
W77-10972 1022 7B

Status of Projects in Minnesota, Fiscal Years 1976 and 77.
W77-11367 1022 9D

Surveillance in Water Quality Management,
W77-11478 1022 5G

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Water-Resources Investigations in Texas, Fiscal Year 1977.
W77-12151 1023 4A

United States Geological Survey Annual Report, Fiscal Year 1976.
W77-12369 1024 9D

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 2: Receptors (Biota): Fish; Plankton; Benthos; Littoral.
W77-12965 1024 6G

DATA COMPRESSION
Compression of Time-Series Data,
W77-01132 1003 7C

DATA MANAGEMENT
Environmental Data Management,
W77-01347 1003 6G

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

Information Transferral within a Distributed Data Base Via a Generalized Mapping Language,
W77-07813 1016 6A

DATA MANAGEMENT SYSTEMS
A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

Aiding Decision Makers with a Generalized Data Base Management System: An Application to Inventory Management,
W77-07814 1016 6A

Observations on a Generalized Intelligent Query Processor for Decision Support,
W77-07849 1016 6A

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

DATA PROCESSING
Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

Determination of Lagrangian Deformations from Analysis of Current Followers,
W77-00136 1001 2L

Data Processing: A Review of the Role of the Ministry of Works and Development,
W77-00378 1001 7C

Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Coastal Engineering Data Network,
W77-00898 1002 2L

Compression of Time-Series Data,
W77-01132 1003 7C

A Simple Computer Program for the Determination of Aquifer Characteristics from Pump Test Data,
W77-01337 1003 7C

Environmental Data Management,
W77-01347 1003 6G

Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

A Computerized Information System on the Impacts of Coal-Fired Energy Development in the Southwest,
W77-02163 1005 6G

Automated Seismic Monitoring System for Lake Michigan Ice Studies,
W77-02468 1005 2C

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

Analysis of Permeameter Data to Obtain Parameters of Non-Darcy Flow,
W77-05148 1011 2G

Computing Derivatives from Equally Spaced Data,
W77-05437 1011 2B

The Measurement of 1 Min Rain Rates from Weighing Raingage Recordings,
W77-05438 1011 2B

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Process Control and Data Processing in Sewage Treatment Plants,
W77-06168 1013 5D

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

Municipal Information Systems: Evaluation of Policy Related Research. Volume 2. Computer Utilization in Local Government,
W77-07631 1016 6B

Objective Analysis of Snow Cover Fields,
W77-07678 1016 2C

DATA PROCESSING

Observations on a Generalized Intelligent Query Processor for Decision Support,
W77-07849 1016 6A

Evaluation of Thermal X/5-Detector Skylab S-192 Data for Estimating Evapotranspiration and Thermal Properties of Soils for Irrigation Management,
W77-08079 1016 7B

Trophic Status of Inland Lakes from LANDSAT,
W77-08434 1017 5A

A Suggested Technique for the Analysis of Airborne Continuous Ice Nucleus Data,
W77-09361 1019 3B

Data Collection, Analysis and Instrumentation,
W77-10442 1021 2A

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

Instrumentation and Automation Experiences in Wastewater-Treatment Facilities,
W77-11760 1023 5D

User Manual for Sewer and Water Accounts Processing Module.
W77-11856 1023 5G

Low-Cost Data Analysis Systems for Processing Multispectral Scanner Data,
W77-12549 1024 7B

A Package of Computer Programs for Benthic Community Analysis,
W77-12850 1024 7C

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

DATA-SEARCH ASSISTANCE

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

DATA STORAGE AND RETRIEVAL

Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Data Processing: A Review of the Role of the Ministry of Works and Development,
W77-00378 1001 7C

Compression of Time-Series Data,
W77-01132 1003 7C

Use of Punch Cards for Accumulating and Analyzing Data on the Sanitary-Epidemiological State of Rural Populated Areas, (In Russian),
W77-01600 1004 5G

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Water Resources Data System,
W77-03728 1008 7C

A Water Resources Data Management System for South Carolina,
W77-03733 1008 7C

Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

Directory of Local Assistance Centers of the National Water Data Exchange (NAWDEX),
W77-04225 1009 7C

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

Water Quality Information Storage and Retrieval System for Hawaii, Final Report, Phase I and II, (July 1971-October 1973),
W77-05672 1012 5A

Water Quality Information Storage and Retrieval System for Hawaii, Phase III: Final Report, (November 1973-September 1974),
W77-05673 1012 5A

A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Observations on a Generalized Intelligent Query Processor for Decision Support,
W77-07849 1016 6A

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

HISARS - Hydrologic Information Storage and Retrieval System - Reference Manual,
W77-08610 1018 7C

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

Method of Analyzing Some Experimental Data on Zooplankton, (In Russian),
W77-10038 1020 2I

User Manual for Sewer and Water Accounts Processing Module.
W77-11856 1023 5G

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

DATA SYSTEMS

Water Resources Data System,
W77-03728 1008 7C

DATA TRANSFER

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

DATA TRANSMISSION

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

Geothermal Energy Pump and Monitor System,
W77-06443 1013 4B

Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

DATING

Seasonal Variations of Chemical Constituents in Annual Layers of Greenland Deep Ice Deposits,
W77-03773 1008 2C

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

DAVIS STRAIT (NORTH ATLANTIC OCEAN)

Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

DAWA PARMA RIVER (ETHIOPA)

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

DDD

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

The Distribution of Residual Quantities of DDT in the Organs and Tissues of Fish of the Kiev Reservoir, (In Russian),
W77-07572 1015 5B

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

DDE

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

The Distribution of Residual Quantities of DDT in the Organs and Tissues of Fish of the Kiev Reservoir, (In Russian),
W77-07572 1015 5B

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

Contribution to the Study of Drinking Water, Danube Water and Biocenose Contamination with Chlorinated Insecticides,
W77-12640 1024 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

DDMU

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

DDR

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

DDT

Of PCB PPMS from GE and A Snafu from EPA and DEC,
W77-00978 1002 5A

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Adsorption of C14-DDT to Particle Surfaces,
W77-03658 1008 5B

Water-Sediment Distribution of Chlorinated Hydrocarbon Pesticides in Various Environmental Conditions,
W77-03660 1008 5B

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Trends of PCB and DDT in Fish and Aquatic Birds,
W77-03677 1008 5B

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

Effect of DDT on Photosynthesis of Selenstrum Capricornutum,
W77-07444 1015 5C

The Distribution of Residual Quantities of DDT in the Organs and Tissues of Fish of the Kiev Reservoir, (In Russian),
W77-07572 1015 5B

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

Conversion of 1,1,1-Trichloro-2,2-Bis(P-chlorophenyl)Ethane (DDT) to Water-Soluble Products by Microorganisms,
W77-10742 1021 5C

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namaycush),
W77-10954 1022 5C

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Contribution to the Study of Drinking Water, Danube Water and Biocenose Contamination with Chlorinated Insecticides,
W77-12640 1024 5C

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

DDT RESIDUES
Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

DE FACTO APPROPRIATION
Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

DEAD RIVER (ME)
Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

DEAD SEA AREA
Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

DEAD SEA (ISRAEL)
Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

DEAERATION STRUCTURE
Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

DEBARYOMYCES
Yeasts and Fungi in Marine Environments, (In French),
W77-02904 1006 5B

DEBRIS
Grazing and Debris Burning on Pinyon-Juniper sites--Some Chemical Water Quality Implications,
W77-04392 1009 5B

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

DEBRIS BASINS
Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

DEBRIS BURNING
Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

DEBRIS FLOW
Flow Regimes in Debris Flow,
W77-09045 1018 2J

DEBRIS TORRENTS
Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

DECAPOD CRUSTACEANS
Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

DECENTRALIZATION
Water Supply Economics,
W77-08863 1018 6B

DECEPTION BAY
Oil Spill at Deception Bay, Hudson Strait,
W77-07731 1016 5G

DECHLORINATED WATER
Hematology of Juvenile Striped Bass, Morone Saxatilis (Walbaum), Acclimated to Different Environmental Conditions,
W77-07400 1015 5C

DECHLORINATION
Photochemical Dechlorination of Water Supply for Fish Tanks with Commercial Water Sterilizers,
W77-08842 1018 5F

DECIDUOUS FORESTS
Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

The Method of Calculating Water-Absorbing Forest Belt Under Tropical Conditions of Cuba, (In Russian),
W77-04747 1010 4A

A Model for the Water Regime of a Deciduous Forest with Special Consideration of the Functional Interrelationships Among Meteorological Factors, Soil Water Content and Evapotranspiration, (In German),
W77-06864 1014 2A

DECIDUOUS TREES
The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

DECISION MAKERS
Aiding Decision Makers with a Generalized Data Base Management System: An Application to Inventory Management,
W77-07814 1016 6A

DECISION-MAKING
Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Economic Optimum Record Length,
W77-00117 1001 4A

Conceptual Framework of Environmental Management,
W77-00178 1001 6G

Decision-Making in Recreational Fisheries Management: an Analysis,
W77-00391 1001 6B

Systematic Approach to Water Resources Plan Formulation.
W77-00532 1002 6A

(Watershed Management and Decision Making in Relation to Computer Hardware, Communications and Software Design),
W77-00619 1002 7C

New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Legal Problems Associated with the Role of Planning in Water Resources Management,
W77-01185 1003 6E

Multiobjective Planning: Concepts and Methods,
W77-01346 1003 6B

Economics of Environmental Control Policies,
W77-02047 1004 6G

Government View,
W77-02051 1004 6G

The Saga of the Environmental Standard,
W77-02060 1004 6G

Economic Effects of Enforcement Variables on Commercial Oil Pollution Control Strategy,
W77-02418 1005 5G

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

The State of Utah Water - 1975,
W77-03559 1007 6B

Institutions and Objectives on the Water, Energy, Environment Interface,
W77-03934 1008 6B

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

Application of Game Theory in Water Management,
W77-04009 1008 6A

Preference Models of Environmental Impact,
W77-04020 1008 6G

Attitudes and Interactions of Citizen Advisory Groups and Governmental Officials in the Water Resources Planning Process,
W77-04294 1009 6B

Education in Land Use Decision Making,
W77-04486 1009 6B

Mathematical Models,
W77-04523 1009 6A

The Limits of Cost-Benefit Analysis as a Guide to Environmental Policy,
W77-04561 1009 5G

Environmental Quality Standards Under Conditions of Uncertainty,
W77-04858 1010 6G

Systems Approach to Water Management.
W77-05008 1010 6A

Surface-Water Quality Management Models,
W77-05014 1010 5G

Mathematical Modeling and Water-Resources Decision-Making,
W77-05019 1010 6A

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

Growth with Environmental Awareness,
W77-05044 1010 6E

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Disaster Recovery Planning Report.
W77-05293 1011 6F

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Connecticut River Water Resource Decision-Making,
W77-06017 1012 6B

Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Subsurface Injection-How Much Does It Cost,
W77-07011 1014 5E

Research and the Quest for Clean Water,
W77-07243 1015 5G

Water Resources Planning and Management Goals,
W77-07523 1015 6B

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Reservoir Operation Under Conflicting Objectives,
W77-07536 1015 4A

Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

Decision-Making for Environmental Resources Management,
W77-07542 1015 6G

Broadening the Approach to Evaluation in Resources Management Decision-Making,
W77-07545 1015 6B

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

Observations on a Generalized Intelligent Query Processor for Decision Support,
W77-07849 1016 6A

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

Objective Function and Constraints in Water Resources Systems,
W77-08046 1016 6A

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

Comparison of Eutrophication Models,
W77-09159 1019 5C

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Public Involvement Appendix.
W77-09388 1019 5G

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

Rethinking Our Approach to Water Supply Provision,
W77-10746 1021 6B

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

Selecting and Planning High Country Reservoirs for Recreation Within a Multipurpose Management Framework,
W77-11938 1023 6B

DECISION THEORY

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

DECISION UTILITY THEORY

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

DECOLORIZATION

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

DECOMPOSING ORGANIC MATTER

Effect of Alternate Aerobic and Anaerobic Conditions on Redox Potential, Organic Matter Decomposition and Nitrogen Loss in a Flooded Soil,
W77-00306 1001 5B

Relationships Between the Denitrification Capacities of Soils and Total, Water-Soluble and Readily Decomposable Soil Organic Matter,
W77-00311 1001 2G

Proximate Nutritive Value Changes During Decomposition of Salt Marsh Plants,
W77-00402 1001 5C

Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

The Decomposition of Leaves in Two Southern California Streams,
W77-03829 1008 5B

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Species Differences in Breakdown of Tree Leaves in Streams--Significance for Composition of Stream Communities,
W77-09056 1018 5B

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

The Decomposition Rate of Organic Matter of Stephanodiscus Hantzschii Grun. From the Channel of the Northern Donets Basin, (In Russian),
W77-12971 1024 5B

DECOMPOSITION

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

DECOMPOSITION RATES (LEAVES)

The Decomposition of Leaves in Two Southern California Streams,
W77-03829 1008 5B

DECOMPRESSION

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

DEEP DISTRIBUTARY CHANNELS

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

DEEP OCEAN MINING

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

DEEP OCEAN MINING ENVIRONMENTAL STUDIES (DOMES)

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

DEEP PERCOLATION

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Deep Percolation in a Furrow-Irrigated Sandy Soil,
W77-10169 1021 3F

DEEP-RELEASE DAMS

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

DEEP-SEA BACTERIA

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

DEEP SEA CHANNEL

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

DEEP SEABED HARD MINERALS ACT

Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

DEEP SEABED MINING
Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

DEEP TILLAGE
No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

DEEP WATER
Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

Initial Dilution with Deepwater Diffusers,
W77-12408 1024 5E

DEEP WATER DIFFUSERS
Initial Dilution with Deepwater Diffusers,
W77-12408 1024 5E

DEEP WATER FISH
The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

DEEP-WELL PUMPING
The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

DEEP-WELL TURBINE PUMPS
Water Turbine Pump Failure,
W77-08656 1018 8G

DEEP WELLS
Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

Submersible Pump Design: Dependent on Well Diameter and Depth.
W77-06867 1014 8C

Deep Wells for Dewatering Offer Real Advantages, Part I.
W77-07294 1015 8B

Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

Research on Cements for Geothermal and Deep Oil Wells,
W77-08320 1017 8F

Deep Wells For Dewatering Offer Real Advantages, Part II,
W77-08325 1017 4B

Man-Made Geothermal Energy Source Uses Oil-Field Know-How.
W77-10515 1021 8A

Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

Microbiology of Waste Treatment, (Literature Review),
W77-11753 1023 5F

DEEPWATER
The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

DEEPWATER DIFFUSERS
Initial Dilution with Deepwater Diffusers,
W77-10974 1022 5B

DEEPWATER PORT ACT
Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

DEEPWATER PORT ACT OF 1974
The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

DEEPWATER PORTS
Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

DEER
Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

DEER HABITAT
Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

DEER-SLOAN CREEK (MICH)
Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

DEF
Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

DEFICIENT ELEMENTS
Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

DEFLECTOR EFFICIENCY
Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

DEFLECTOR TESTS
Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

DEFLOCCULATION
Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

DEFOLIANTS
Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

DEFOLIATION
Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

DEFORMITIES
Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

DEFORMITIES (FISH)
Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

DEGASSING TECHNIQUES
Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

DEGRADATION
Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

DEGRADATION (DECOMPOSITION)
Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

The Effect of Gamma Irradiation on Pulp and Paper Mill Effluents,
W77-02000 1004 5D

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

DEGRADATION (DECOMPOSITION)

Effect of Various Factors on Glucose Decomposition Rate in Natural Waters, (In Russian),
W77-03862 1008 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Pigment Cycle in a North German Lake,
W77-07459 1015 5C

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

Degradation of Parathion in Seawater,
W77-09506 1019 5B

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

Theoretical Consideration on Nitrite Self-Decomposition Reactions in Soils,
W77-10279 1021 2G

Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

DEGRADATION PATHWAYS

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

DEGRADATION (SLOPE)

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

DEGRADATION (STREAM)

Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

Effects of Change in Stream Regimen Below Glen Canyon Dam on the Morphology of the Colorado River,
W77-12265 1024 2J

DEGREE OF DECOMPOSITION

Methods for Analyzing the Hydrological Characteristics of Organic Soils in Marsh-Ridden Areas,
W77-06439 1013 2G

DEGREE OF DEGRADATION

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

DEHP (DI-2-ETHYLMETHYL PHTHALATE)

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

DEHYDRATION

Effect of Dehydration and Elevated Temperature on Leaf Cell Thermoresistance of a Drought-Sensitive Barley Cultivar, (In Russian),
W77-00503 1001 2I

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

Continuous Bowl-Type Centrifuges for the Clarification and Dehydration of Sludges from the Paper Industry (Centrifugeuses Continues A Bol Plein Pour Clarification et Deshydration des Boues Dans L'Industrie Papetiere).
W77-03613 1008 5D

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

Some Significant Regularities in Plant Hydroadaptation, (In Russian),
W77-06774 1014 3B

Dehydration of Marine Zoological Material - Volatility of Metabolised Selenium at 105-120C,
W77-10095 1020 5A

Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

DEHYDROABIETIC ACID

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

DEHYDROCHLORINATING SYSTEM

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

DEHYDROGENASE ACTIVITY

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 2. Some Factors Influencing Oxygen Uptakes and Dehydrogenase Activities,
W77-12777 1024 2G

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

DEICERS

Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

Evaluation of the Use of Salt Brine for Deicing Purposes,
W77-01639 1004 4C

Lock Wall Deicing with Water Jets: Field Tests at Ship Locks in Montreal, Canada and Sault Ste. Marie, Michigan,
W77-02156 1005 8C

The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

DELAWARE

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Biology of Blue-Green Algae of Tide Marshes,
W77-02446 1005 5C

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Economics of Storm Protection,
W77-02672 1006 6F

Delaware's Changing Shoreline,
W77-02684 1006 2L

Coastal Zone Boundaries.
W77-02685 1006 2L

Geographic Areas of Particular Concern.
W77-02687 1006 2L

Coastal Zone Boundaries. Summary.
W77-02688 1006 2L

Hydraulic Characteristics of the Piney Point Aquifer and Overlying Confining Bed Near Dover, Delaware,
W77-03331 1007 2F

Delaware 1975 State Water Quality Inventory,
W77-03378 1007 5G

Glassman V. Weldin Farms, Inc. (No Right in Upper Land Owner to Artificially Increase the Natural Drainage of Surface Water to Increase Flooding on Land of Lower Property).
W77-03518 1007 6E

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

State of Delaware New Castle County River Basin, Water Quality Management Plan.
W77-04856 1010 5G

State of Delaware Sussex County River Basin, Water Quality Management Plan.
W77-04857 1010 5G

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

Water Resources Data for Maryland and Delaware, Water Year 1975.
W77-11373 1022 7C

Internal Sedimentary Structures, Vertical Stratigraphic Sequences, and Grain-size Parameter Variations in a Transgressive Coastal Barrier Complex: The Atlantic Coast of Delaware,
W77-11663 1023 2J

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

DELAWARE BAY
Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Sediments, Structural Framework, and Evolution of Delaware Bay, A Transgressive Estuarine Delta,
W77-10186 1021 2L

Delaware Bay Ice Conditions, 1977,
W77-10188 1021 2L

DELAWARE BAY REGION
Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

DELAWARE RIVER
Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

Water Pollution Control Act of 1972, Regional Impacts, Delaware River Basin, (Parts 1, 2, and 3).
W77-01978 1004 5G

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

The Delaware Estuary,
W77-04497 1009 6G

Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

Present and Historical Spawning Grounds and Nurseries of American Shad, Alosa sapidissima, in the Delaware River,
W77-07131 1015 5C

Delaware Bay Ice Conditions, 1977,
W77-10188 1021 2L

Automated Hydrography for Channel Dredging,
W77-10316 1021 8B

Regional Environmental Management Modeling.
W77-10842 1022 6A

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

DELAWARE RIVER BASIN
Water Pollution Control Act of 1972, Regional Impacts, Delaware River Basin, (Parts 1, 2, and 3),
W77-01978 1004 5G

DELAWARE RIVER BASIN PROJECT
Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

DELAYED EFFECTS (ENTRAINMENT)
Entrainment of Estuarine Zooplankton into a Mid-Atlantic Power Plant: Delayed Effects,
W77-05592 1011 5C

DELEWARE
System Prevents Leachate Formation.
W77-04136 1009 5G

DELIGNIFICATION
Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

DELINEATION METHODOLOGY
Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

DELMARVA PENINSULA
Improving Estimates of Streamflow Characteristics Using LANDSAT-1 (ERTS-1) Imagery,
W77-06972 1014 4A

DELPHI TECHNIQUES
Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

DELTA LOCATIONS
Location of Major Deltas,
W77-09133 1019 2L

DELTA-MENDOTA CANAL (CALIF)
Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

DELTA PRIME MEASUREMENT
Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

DELTAS
Beware The Wrath Of Osiris,
W77-00177 1001 4A

The Sedimentary Influence of a Tributary Stream Growth of the Niobrara Delta,
W77-00824 1002 2J

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Plan for Improvement of the Delta Levees.
W77-03550 1007 4A

Computer Modeling of Erodible Flood Channels and Deltas,
W77-03993 1008 2J

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

Aspects of Zoobenthos Ecology of the Mackenzie Delta, N.W.T.,
W77-07499 1015 5C

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

Location of Major Deltas,
W77-09133 1019 2L

Current Dynamics and Sediment Distribution in the West Mississippi Delta Area,
W77-10032 1020 2L

Sediments, Structural Framework, and Evolution of Delaware Bay, A Transgressive Estuarine Delta,
W77-10186 1021 2L

DEMAND
Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Market Demand and General Location Options,
W77-05378 1011 6D

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

RECSAD: A Computer Program for Recreation Planning,
W77-08300 1017 6B

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

DEMERSAL FISH
Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

DEMERSAL FISHES
Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

DEMETON
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

DEMINERALIZATION
Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Reclamation Apparatus for Carrying out said Method,
W77-01215 1003 3A

Liquid Treating System,
W77-01739 1004 5F

Apparatus for Controlling Marine Fouling of Salt Water Coolant Heat Exchangers, Piping Systems, and the Like,
W77-04956 1010 8G

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

DEMONSTRATION WATERSHEDS
Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

Effects of Soil Conservation Treatment on Runoff and Sediment Loss from a Catchment in Southwestern New South Wales, Australia,
W77-02772 1006 4D

The Effect of Afforestation on Erosion Processes and Sediment Yield,
W77-02781 1006 4C

Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

An Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control,
W77-06671 1014 5G

The Representation of a Short Period of Experimental Catchment Data by a Linear Stochastic Difference Equation,
W77-07646 1016 2

DENDROBAENA RUBIDA
Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

DENDROCHONOLOGY
Annual Woody Productivity During a 10-Year Period at Mirwart (Belgium), (In French),
W77-09227 1019 2I

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

DENDROCHRONOLOGY
Annual Woody Productivity During a 10-Year Period at Virelles-Blaimont, (Belgium), (In French),
W77-09143 1019 2I

Long-Range Changes,
W77-10443 1021 2A

DENDRODOA
The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

DENITRIFICATION
Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

Formation of Chemical and Biological Denitrification Products in Flooded Soil at Controlled pH and Redox Potential,
W77-00308 1001 2G

Relationships Between the Denitrification Capacities of Soils and Total, Water-Soluble and Readily Decomposable Soil Organic Matter,
W77-00311 1001 2G

Denitrification With a Bacterial Disc Unit,
W77-00550 1002 5D

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

Single-Stage Nitrification-Denitrification,
W77-00590 1002 5D

Denitrification of Wastewater Effluents with Methane,
W77-00609 1002 5D

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

Soil Nitrate Loss During Irrigation: Enhancement by Plant Roots,
W77-01268 1003 3F

Nitrogen Losses from Soils of the North Carolina Coastal Plain,
W77-02294 1005 5B

Freeing Waste Water from Nitrogenous CPDS - Using Partially Oxidised Sludge as Source of Organic Carbon.
W77-02339 1005 5D

Denitrification of Nitrified Septic Tank Effluent,
W77-02347 1005 5D

Fluid-Bed Reactor May Cut Sewage Costs.
W77-02367 1005 5D

Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

Effect of Temperature on Denitrification Rate in Soils.
W77-03070 1006 2G

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-08099 1016 5D

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

Factors Affecting the Denitrification Rate in Two Water-Sediment Systems,
W77-08517 1017 5B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Chemical Reduction of Nitrate by Ferrous Iron,
W77-09426 1019 5A

Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

Influence of Pesticides on Denitrification in Soil and With an Isolated Bacterium,
W77-09445 1019 5B

Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

Simultaneous Transport of Nitrate and Gaseous Denitrification Products in Soil,
W77-09653 1020 5B

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Ammonium Diffusion as a Factor in Nitrogen Loss from Flooded Soils,
W77-09966 1020 5B

Denitrification Kinetics in Soil Systems: The Significance of Good Fits of Data to Mathematical Forms,
W77-10272 1021 2G

Bacterial Denitrification - A Review,
W77-10373 1021 5D

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-10721 1021 5D

Denitrification Measured Directly from Nitrogen and Nitrous Oxide Gas Fluxes,
W77-12180 1023 2K

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

DENITRIFYING BACTERIA

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

DENITRIFYING BACTERIUM

Influence of Pesticides on Denitrification in Soil and With an Isolated Bacterium,
W77-09445 1019 5B

DENMARK

Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

Fluctuations in the Waterlevel in Wells Due to Variations in Atmospheric Pressure,
W77-11606 1023 4B

Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

DENSITY

Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

The Density of Artificial River and Estuarine Waters,
W77-01612 1004 2L

Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

An Analysis of Instabilities Caused by Salinity Gradients in Groundwater,
W77-01931 1004 5B

Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

Spectral Analysis of the Long-Term Oceanographic Time Series at Ocean Weather Station 'P',
W77-03843 1008 2L

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

DENSITY CURRENTS

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Energy Relations of Density-Current Flows: An Experimental Investigation,
W77-06317 1013 2J

Density Currents and Their Applications,
W77-08844 1018 5B

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

DENSITY FLOW

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

DENSITY GRADIENT CENTRIFUGATION

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

DENSITY STRATIFICATION

Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Hydrodynamics of Large Lakes,
W77-05127 1011 2H

Waste Injection into Stratified Ground Water Bodies,
W77-06855 1014 5B

DENTRIFICATION

Septic Tank Pollution Cut.
W77-06174 1013 5D

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

DENVER AREA (COLO)

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

DENVER BASIN

Ground Water Resources of the Bedrock Aquifers of the Denver Basin Colorado,
W77-04126 1009 2F

DENVER (COLO)

Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

Denver's Headworks Reflects Complexity of System,
W77-03412 1007 5D

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

DENVER (COLORADO)

New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

DENVER FORMATION

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

DENVER WATER SUPPLY

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

DEPENDABLE SUPPLY

Summary, Phase 1 - Arizona State Water Plan: Inventory of Resource and Uses.
W77-04782 1010 6B

The Potential for Growth and Development in Tennessee,
W77-10916 1022 6D

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

DEPLETABLE RESOURCES

Use Patterns for Depletable and Recycleable Resources,
W77-00708 1002 6C

DEPOSITION

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

DEPOSITION (SEDIMENTS)
Digital Simulation of Aggradation and Degradation in Natural Streams,
W77-00818 1002 2J

Scour and Fill in an Ephemeral Stream,
W77-00827 1002 2J

Model Study of Riverbed Material in Canyon Ferry Dam Spillway Stilling Basin,
W77-00834 1002 2J

Sedimentation in Coon Creek Valley, Wisconsin,
W77-00835 1002 4D

Patterns of Scour and Fill in Pool-Rapid Rivers,
W77-00837 1002 2J

Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

American Sedimentation Law and Physical Processes,
W77-08130 1017 6E

Grain-Size Parameters of Insoluble Residues in Mixxed Terrigenous-Skeletal Carbonate Sediments and Sedimentary Rocks: Some New Zealand Examples,
W77-08848 1018 2L

Mathematical Modeling of Scour and Deposition,
W77-11207 1022 8B

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Deposition and Erosion in an Alluvial Channel (Les Phenomenes de Deposition et D'erosion dans un Canal Alluvionnaire),
W77-12797 1024 2J

DEPRESSION
Micro-Relief Surface Depression Storage: Analysis of Models to Describe the Depth-Storage Function,
W77-04895 1010 2G

DEPRESSION STORAGE
Micro-Relief Surface Depression Storage: Analysis of Models to Describe the Depth-Storage Function,
W77-04895 1010 2G

DEPTH
Determination of the Critical Depth for Bagaevsko-Sadki Irrigation System, (In Russian),
W77-02928 1006 3F

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Some Patterns in the Microstructure of the Snow-Depth Field in the Mountain Regions,
W77-06302 1013 2C

Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

DEPTH-AREA CURVES
Area-Depth Relations for Frequency Values of Rainfall,
W77-06647 1014 2B

Storm Depth-Area Relations from Digitized Radar Returns,
W77-11226 1022 2B

DEPTH-AREA-DURATION ANALYSIS
Generalized Relationship Between Maximum Rain Depth, Area and Return Period for Major Rainstorms,
W77-01131 1003 2B

Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

Area-Depth Relations for Frequency Values of Rainfall,
W77-06647 1014 2B

DEPTH DISTRIBUTION
Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

DEPTH DISTRIBUTION STUDIES
Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

DEPTH HOAR
On Depth Hoar and the Strength of Snow,
W77-08239 1017 2C

DEPTHS
Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

DEPURATION (OYSTERS)
Reduction in Sewage Contamination in Sydney Rock Oysters,
W77-07946 1016 5G

DERMOCYSTIDIUM
Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

DES MOINES RIVER (IA)
Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

DESALINATION
Economics of a Freeze Desalting Process Using Cold Seawater Effluent of a Liquid Natural Gas Plant.
W77-00635 1002 3A

Water Law and New Technologies.
W77-01184 1003 6E

Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Multi-Stage Flash Distillation Plant,
W77-01199 1003 3A

Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Reclamation Apparatus for Carrying out said Method,
W77-01215 1003 3A

The Removal of Salt and Organic Material from Sewage Effluent by Anion Exchange Resins,
W77-01364 1003 5D

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

Electrochemistry,
W77-01999 1004 5D

Prospects for an Agro-Industrial Complex on the Gaza-Sinai Sea Coast,
W77-02115 1005 3A

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Desert Food Factories,
W77-02176 1005 3C

The Influence of the Raw Water Conditioning on the Working Data of a Reverse Osmosis Plant to Produce Ultra-Pure Water (Einfluss der Rohwasserkonditionierung auf Betriebsdaten einer Umkehrosmose-Anlage zu Reinstwassererzeugung),
W77-02355 1005 5D

Turbulent Transport to a Rotation Cylinder for Large Prandtl or Schmidt Numbers,
W77-02534 1005 3A

Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W77-02535 1005 3A

Solar Distillation in Chile,
W77-02862 1006 3A

Experimental, Clinical and Physiological Data for Substantiating the Lower Limits of the Mineralization of Desalinated Drinking Water, (In Russian),
W77-02895 1006 5C

Physiological Assessment of Calcium Content in Distilled Drinking Water, (In Russian),
W77-02909 1006 5F

Study of the Effect of Desalted Drinking Water on the Health of the Population, (In Russian),
W77-03037 1006 5F

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

Sanitary-Chemical Evaluation of Cellulose Acetate Membranes Used for Desalination of Sea Water, (In Russian),
W77-04596 1009 3A

Membrane Separation Equipment,
W77-04963 1010 3A

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

The Feasibility of a Water Importation Project for South Florida,
W77-07259 1015 6E

Waste Water Reclamation at St. Croix, U.S. Virgin Islands,
W77-08086 1016 4B

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

Forward Osmosis Extractors,
W77-08340 1017 3A

Colorado River Water Quality Improvement Program (Final Environmental Statement).
W77-09527 1019 5G

Distillation Apparatus and Method,
W77-09804 1020 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-09817 1020 3A

Colorado River Basin Salinity Control Project--Title I,
W77-09931 1020 5D

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Source, Consumption and Use of Brackish Water in Israel,
W77-11061 1022 3C

Sensitivity of Desalted Water Costs from Various Processes to Changing Energy Prices,
W77-11072 1022 3A

Applicability of Commercial Reverse Osmosis Units for the Quality Improvement of Brackish Water Sources in the Southern Arava,
W77-11073 1022 3A

Electrodialysis in Water Desalination and the Influence of Ion Exchange Resin Introduction into the Apparatus,
W77-11074 1022 3A

Ion-Permselective Membranes,
W77-11075 1022 3A

The Role of Membrane Methods in the Desalination of Brackish Water,
W77-11076 1022 3A

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

Solar Distillation in India,
W77-11087 1022 3A

Status of Desalination Research and Technology in the Middle East,
W77-11109 1022 3A

Test Leaching of Solonchaks in the River Lena Valley (USSR), (In Russian),
W77-11413 1022 3C

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

Thin Cell Electromembrane Separator,
W77-11917 1023 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-11918 1023 3A

California's Water Reclamation and Desalinization Projects,
W77-12295 1024 5D

The Production of Water from Geothermal Reservoirs: Some Economic Considerations,
W77-12682 1024 3A

Integrating Desalination and Agricultural Salinity Control Technologies,
W77-12761 1024 3A

Water in Kuwait,
W77-12837 1024 3A

DESALINATION APPARATUS

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Solar Distillation in Chile,
W77-02862 1006 3A

Status of Reverse Osmosis Desalination Technology,
W77-08225 1017 3A

Reclamation of Irrigation Field Drainage Water,
W77-11113 1022 5D

DESALINATION PLANTS

Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Drinking Water Supply in Krasnovodsk, (In Russian),
W77-02902 1006 3A

The Integration of Desalination Plant with Existing Australian Water Resources,
W77-04018 1008 3A

The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

The Conjunctive Use of a Multi-Reservoir System and a Dual-Purpose Desalting Plant,
W77-06714 1014 4B

System Design of a Tubular Reverse Osmosis Plant,
W77-09319 1019 5F

Application of Membrane Processes,
W77-09929 1020 3A

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

The MSF/FBE: An Improved Multi-Stage Flash Distillation Process,
W77-11441 1022 3A

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

DESALINATION PROCESSES

Economics of a Freeze Desalting Process Using Cold Seawater Effluent of a Liquid Natural Gas Plant.
W77-00635 1002 3A

Osmosis Process for Producing Energy,
W77-01751 1004 3A

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Desert Food Factories,
W77-02176 1005 3C

One Pass Seawater Desalting RO Pilot Plant Evaluation,
W77-03076 1007 3A

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Brine Desalination Process with Phase-Breaking by Cold Hydrocarbon Injection,
W77-04951 1010 3A

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

Regular Copolyamides as Desalination Membranes,
W77-09806 1020 3A

Application of Membrane Processes,
W77-09929 1020 3A

Sensitivity of Desalted Water Costs from Various Processes to Changing Energy Prices,
W77-11072 1022 3A

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

Reclamation of Irrigation Field Drainage Water,
W77-11113 1022 5D

Prospects of the Exploitation of Advanced Energy Resources in Water Production in the Middle East,
W77-11116 1022 3A

Desalting in Australia: The Development of a New Process for Brackish Water,
W77-11117 1022 3A

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

Status of Sea Water Reverse Osmosis Membrane Process Technology,
W77-12571 1024 3A

History, Status and Future of Distillation Processes,
W77-12631 1024 3A

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

DESALINATION WASTES
The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

DESALINIZATION
Desalinization of a Highly Saline Soil, Prediction and Field Observation,
W77-12762 1024 3A

DESCALING
Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Reclamation Apparatus for Carrying out said Method,
W77-01215 1003 3A

DESCHUTES DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

DESERT BASINS
Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

DESERT PLANTS
Characteristics of the Main Components of Water Balance of Sandy Desert Plant Communities, (In Russian),
W77-00882 1002 2I

Rainfall Interception by Cool-Desert Shrubs,
W77-01900 1004 3B

Competition and Spacing in Plant Communities: The Northern Mohave Desert,
W77-02174 1005 2I

Sodium Relations in Desert Plants: 5. Cation Balance When Grown in Solution Culture and in the Field in Three Species of Lycium from the Northern Mojave Desert,
W77-02178 1005 3C

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

Water Regime of Central Asian Desert Plants, (In Russian),
W77-06150 1013 2D

Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

DESERT PUPFISH
Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

DESERT RESERVOIRS
Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

DESERTIFICATION
A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Desertification: Symptom of a Crisis,
W77-03737 1008 4C

The Consequences of Fooling Mother Nature,
W77-03738 1008 2B

Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

Life At The Desert's Edge.
W77-09305 1019 4C

Connections Between Climate and Desertification,
W77-11629 1023 2B

DESERTS
Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Desertification: Symptom of a Crisis,
W77-03737 1008 4C

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

The American Experience,
W77-05941 1012 6G

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

The Evolution of the Australian Deserts,
W77-11112 1022 2A

Connections Between Climate and Desertification,
W77-11629 1023 2B

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

Hydrology of the Sahara,
W77-12834 1024 6D

DESICCATION
Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

DESIGN
Optimal Design of Single Reservoir System Using (Delta) Relase Policy,
W77-00109 1001 4A

Economic Optimum Record Length,
W77-00117 1001 4A

The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

Offshore Industrial-Port Islands,
W77-00176 1001 5G

Design of a Refinery Dock to Prevent Oil Spills,
W77-00205 1001 5G

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

How to Drill a Usable Hole, Part 3, Selecting the Drill Collar String,
W77-01768 1004 8G

Manual of Water Well Construction Practices.
W77-01777 1004 8B

Design of Surface Water Data Networks for Regional Information,
W77-01885 1004 7A

Utility of Urban Runoff Modeling, (Proceedings of a Special Session, Spring Annual Meeting, American Geophysical Union, Washington, D.C. 14 April 1976.
W77-02076 1005 2A

Effluent-Free Bleached Kraft Pulp Mill. VIII. Bleach Plant Renovation and Design,
W77-02562 1005 5D

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Application of a Model for Layout and Design of Sewer Systems,
W77-03133 1007 5B

Automation: A Short History, But a Long Future,
W77-03469 1007 5D

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Farm Waste Composting Process.
W77-04619 1010 5B

Kearney Feeder's Early Effort Earns Environmental Award.
W77-04628 1010 5G

Methane From Farm Wastes,
W77-04630 1010 5B

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

A Simple Tube-Type Water Profile Sampler,
W77-04717 1010 5A

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

Network Design for the Estimation of Areal Mean of Rainfall Events,
W77-05194 1011 2B

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Biological Filter Design Optimization,
W77-05981 1012 5D

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

Portable, Hand-Operated Cycle Sieve for Washing Macroinvertebrate Samples,
W77-06424 1013 7B

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

Network Approach to Optimal Wastewater Treatment System Design,
W77-07531 1015 5D

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

Moduflex Sewage Treatment Plants Provide the Answer to Growth,
W77-08588 1017 5D

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

System Design of a Tubular Reverse Osmosis Plant,
W77-09319 1019 5F

Design Parameters for Animal Waste Treatment Systems - Nitrogen Control,
W77-09393 1019 5D

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Aeration: Proper Sizing is Critical,
W77-09905 1020 5D

Analysis of Economic Sewage Lift Station Design,
W77-09906 1020 8C

A Sanitary Engineer's Viewpoint on Tall Buildings,
W77-10213 1021 8A

The KWA Dabeka-Clermont Sewerage Scheme-Planning, Design and Operation,
W77-10220 1021 5D

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

A New Model of Thicket Dredge, (In Russian),
W77-12347 1024 7B

Impeller Design Keeps Down Pump Set Maintenance.
W77-12439 1024 8C

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Concept and Design: Controlled Ecosystem Pollution Experiment,
W77-12854 1024 5A

DESIGN CHARTS

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

DESIGN CRITERIA

Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

Sludge Drying Beds are Practical, Part 1,
W77-00039 1001 5D

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

Wastewater Plant Design Reduces Off-Site Energy Needs.
W77-00059 1001 5D

Functional Design of Sanitary Sewers,
W77-00068 1001 5D

Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

Sewage System,
W77-00561 1002 5D

Tank Clarification Plant,
W77-00563 1002 5D

Sludge Elevator for Fluid Clarification System,
W77-00564 1002 5D

Double Funnel Device for Oxygenating Sewage,
W77-00565 1002 5D

Sewage System with Reusable Flush Medium,
W77-00569 1002 5D

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Design Limits on Critical Float Emergence in a Tethered Float Breakwater,
W77-00899 1002 8C

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

An 'Environmental' Approach to Stormwater Management in the Adelaide Hills (Australia),
W77-00953 1002 4A

A Sanitary Engineer's Viewpoint on the Design, Installation, Maintenance and Cost of Sanitary Drainage Systems in High-Rise Buildings,
W77-01388 1003 8A

R26m Dam Plan for the Lowveld.
W77-01478 1003 8A

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

Thurrock Beats Peat with Piled Pipes,
W77-02328 1005 8E

Dilution and Design,
W77-02332 1005 5E

Digestion is a Good Egg in Los Angeles,
W77-02365 1005 5D

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Improving Design Criteria for Septic Tank Systems,
W77-02621 1006 5D

Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

System for Dewatering Dilute Slurries,
W77-03352 1007 5D

Ship-to-Shore Sewage Hose Handling Tests,
W77-03364 1007 5D

Advanced Trickling Filter for Wastewater Treatment,
W77-03365 1007 5D

Sewerage Treatment Apparatus,
W77-03406 1007 5D

Biological Purification of Sewage Water-In a Multi-Stage Treatment Tank With Rotating Contactor Surfaces Partly Immersed in the Liquid.
W77-03407 1007 5D

Coagulation Clarifying Effluents Contaminated with Colloid Suspensions-By Electrophoresis After Mixing in Insoluble Metallic Particles.
W77-03408 1007 5D

Biological Converter for Faecal Matter in Water - Using Rotary Tubes With Fibrous Filling Supporting the Bacterial Culture.
W77-03409 1007 5D

Sludge Dewatering Pilot Plant Design, Part I,
W77-03416 1007 5D

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

Design Sewers to be Self-Cleaning,
W77-06103 1013 8G

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. I. Introduction and Future Prospects of Protective Planning (Verfahrens-technische Unterlagen im Hinblick auf die neuen Gewaesserschutz-anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. I. Einfuehrung und Perspektive im Hinblick auf die Gewaesserschutzplanung),
W77-06182 1013 5D

Design Principles of Activated Carbon-Filled Adsorption Columns for Waste Water Treatment (Zasady projektowania kolumn sorpcyjnych z weglem aktywnym do oczyszania sciekow),
W77-06194 1013 5D

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

Elimination of Anaerobic Digester Supernatant,
W77-07059 1014 5D

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

Stabilisation Lagoons Including Experience in Brazil. Part 1,
W77-07063 1014 5D

Advanced Waste Treatment Seminar, Session III, Removal of Solids and Organics, Held at San Francisco, on October 28-29, 1970.
W77-07074 1014 5D

Design Criteria for Hydrologic Extremes,
W77-07165 1015 8B

Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W77-07217 1015 5D

The Conception, Design, and Construction of Metropolitan Toronto Mid-Toronto Sewer,
W77-07888 1016 8B

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

Sewage Pumping Station Built to Handle Future System Demands,
W77-08550 1017 8C

The Use of Packed Beds in Water Pollution Control,
W77-08637 1018 5D

Rational Design of Aerobic Digestion Systems,
W77-08643 1018 5D

Designing for Sediment Transport,
W77-08962 1018 4D

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Design Criteria for Swine Waste Treatment Systems,
W77-09394 1019 5D

Design and Operation of Rain Spillways and Rain Overflow Catchment (Entwurf and Betrieb von Regenuberlaufen (Ru) und Regenuberlaufbecken (RUB),
W77-09822 1020 8B

Problems and Solutions for Sludge Treatment. Part 2,
W77-09829 1020 5D

New Sewer System Resists Infiltration.
W77-09843 1020 5D

Nitrogen Control: Design Considerations for Supported Growth Systems,
W77-09848 1020 5D

How Sludge Characteristics Affect Incinerator Design,
W77-09869 1020 5E

Review and Evaluation of Aeration Tank Design Parameters,
W77-09870 1020 5D

Two-Stage Settling Improves Sludge Removal Efficiency,
W77-09875 1020 5D

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Experience with the Design and Operation of Small Extended Operation Aeration Wastewater Treatment Plants,
W77-10368 1021 5D

Physical - Chemical Treatment Plant Design,
W77-10534 1021 5D

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Collection, Treatment and Reutilization of Waste Waters in Arid Zones of the Middle East,
W77-10591 1021 5D

A Note on Sewer Design,
W77-10599 1021 5D

Wastewater Phosphorus Removal Using Land Application,
W77-10606 1021 5D

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

Collection Systems.
W77-11500 1022 5D

Axial-Flow Pumps for Deep Waters.
W77-11550 1023 8C

A Guide for the Design of Dissolved-Air (Pressure) Flotation Systems for Activated Sludge Processes,
W77-11581 1023 5D

Water Treatment Plant Design is Cost-Effective,
W77-11742 1023 5D

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

Activated Sludge Process Design,
W77-12407 1024 5D

Initial Dilution with Deepwater Diffusers,
W77-12408 1024 5E

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

Effects of Design Factors on Sedimentation Basin Performance,
W77-12514 1024 4D

DESIGN DATA

Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

Design Sewers to be Self-Cleaning,
W77-06103 1013 8G

Evolution of Multijet Sleeve Valve,
W77-10117 1021 8C

Hydraulic Design Data for Water Wells in Unconsolidated Sediments,
W77-10377 1021 8B

Variations in Nitrogen and Organics in Wastewaters,
W77-11735 1023 5D

A Survey of Commercially Available Automatic Wastewater Samplers,
W77-12481 1024 5A

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

Development and Testing of a Wastewater Recycler and Heater,
W77-12493 1024 5D

Evaporation of Treated Waste Water,
W77-12945 1024 5D

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

DESIGN FLOOD

Effect of Sequence Length n On the Choice of Assumed Distribution of Floods,
W77-00861 1002 2E

A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

Design Flood Synthesis by Excess Rain Routing,
W77-01452 1003 2A

Flood Frequency--Expected and Unexpected Probabilities,
W77-05747 1012 4A

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Urbanization and Flooding - An Example,
W77-09161 1019 4C

DESIGN FLOW

Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

DESIGN (HYDRAULICS)

Advanced Methodologies for Design of Storm Sewer Systems,
W77-05927 1012 5D

DESIGN RAINFALL

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

DESIGN STANDARDS

Flood Standards - The Role of Engineering Institutions,
W77-00935 1002 6F

The National Flood Insurance Act of 1968 and Flood Plain Zoning in Arkansas, Nebraska, North Dakota, Mississippi, Tennessee, South Dakota, and Kansas,
W77-01099 1003 6E

Standardization for Water Pollution Control Works,
W77-10610 1021 5D

DESIGN STORM

A Study of Maximum Values of Within-Storm Rainfall,
W77-01127 1003 2B

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

Advanced Methodologies for Design of Storm Sewer Systems,
W77-05927 1012 5D

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Urbanization and Flooding - An Example,
W77-09161 1019 4C

DESIGN *TESTING

The Design and Test of a Safe and Effective Storm-Sewer Inlet,
W77-02186 1005 8B

DESIGN WAVE HEIGHTS

Seasonal Variations in Great Lakes Design Wave Heights: Lake Erie,
W77-09986 1020 8B

DESIGN WAVES

Design Wave Information for the Great Lakes; Report 2, Lake Ontario,
W77-12569 1024 8B

DESMAN LANDS

Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

DESMETHOXYVIRIDIOL

Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

DESMIDS

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

DESODIFICATION

Leaching of a Highly Saline-Sodic Soil,
W77-05788 1012 2G

DESORPTION

Relationships Between Sorption and Desorption of Phosphorus by Soils,
W77-00298 1001 5B

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Virus-Coal Sorption Interaction,
W77-06162 1013 5D

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

DESTRATIFICATION

Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of

DESTRATIFICATION

Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

DESTRUCTIVE DISTILLATION
Method of Producing Char from Pulp Manufacturing Waste Liquor,
W77-01676 1004 5E

DETECTION
Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

DETENTION
Effects of Design Factors on Sedimentation Basin Performance,
W77-12514 1024 4D

DETENTION BASINS
Design Efficiency of Stormwater Detention Basins,
W77-08841 1018 4D

DETENTION RESERVOIRS
Urban Stormwater Detention and Flow Attenuation,
W77-00078 1001 5D

Planning for Storm Water Management,
W77-00770 1002 6F

Design Efficiency of Stormwater Detention Basins,
W77-08841 1018 4D

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

Optimal Systems of Storm Water Detention Basins in Urban Areas,
W77-10184 1021 4D

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

Detention Tank for Combined Sewer Overflow, Milwaukee, Wisconsin, Demonstration Project.
W77-12824 1024 5D

DETENTION RESERVOIRS. *LINEAR PROGRAMMING
Optimal Storage Control in a Combined Sewer System,
W77-10846 1022 5D

DETERGENT
Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

DETERGENTS
Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

Effect of Some Integral Components of Detergents on the Behaviour, Mortality and Damage of Gills of the Larvae of the Species Rhyacophila Fasciata Hag. (Trichoptera), (In Serbo-Croatian),
W77-02893 1006 5C

Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
W77-02897 1006 5G

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Study on the Long-Term Effects of Some Detergents on the Sequence of Development of the Sedentary Polychaete, Capitella Capitata (Fabricius), (In French),
W77-04067 1008 5C

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

History of the Phosphate Detergent Ban in Indiana,
W77-06378 1013 5G

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

Effect of Citrate and Carbonate Based Detergents on Wastewater Characteristics and Treatment,
W77-12773 1024 5D

DETERIORATION
Sewer Lining,
W77-01491 1003 8G

DETERLON
Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

DETERMINING EVAPORATION
A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

DETERMINISTIC MODELS
Screening Models in Water Resources Planning, Part III,
W77-00535 1002 6A

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

DETOXIFICATION
Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

DETOXIFICATION (KRAFT MILLS)
Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W77-07217 1015 5D

DETOXIFICATION OF HG2+
Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

DETRIMENTAL NITROGEN LIMIT
The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

DETRITUS
Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

DETRIVORES
Population Ecology and Production of Benthic Detritivores,
W77-07979 1016 5C

DETROIT (MICH)
Water Pollution Modeling in the Detroit Metropolitan Area,
W77-09187 1019 5B

DETROIT RIVER (MICH)
Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Detroit and St. Clair River Transient Models,
W77-11659 1023 6A

DEUTERIUM
The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

Hot Groundwater Systems in Iceland Traced by Deuterium,
W77-11812 1023 2F

DEVELOPED WATERS
Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

DEVELOPING AREAS
Key Notes and Impacts of Simulation and Modeling Techniques for Decision Making Water Resources Projects in Developing Areas,
W77-10825 1022 6A

DEVELOPING COUNTRIES
The Integration of Environmental and Development Planning for Ecological Crisis Areas in Africa,
W77-00385 1001 6G

Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

Imperatives of Water Resources Planning in the Developing Economy of India,
W77-07555 1015 6A

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

The Application of Technology in Developing Countries.
W77-11637 1023 6B

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

DEVELOPING COUNTRIES (GROUNDWATER)
Preliminary Bibliography on Groundwater in Developing Countries,
W77-06852 1014 2F

DEVELOPING NATIONS
Sewage Treatment in Developing Countries,
W77-08635 1018 5D

DEVELOPMENT CAPABILITIES MAP
Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

DEVELOPMENT OF REGIONAL IMPACT (DRI)
Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

DEVELOPMENT RATES
Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

DEVIATION HOLES
Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

DEVILS HOLE AREA (NEV)
Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

DEVON ISLAND (CANADA)
An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

DEVON ISLAND ICE CAP (CANADA)
Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

DEW
An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

Effect of Dew on Leaf Water Potentials and Crop Resistances in a Paspalum Pasture,
W77-03736 1008 3F

DEW FORECASTING
An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

DEWATERING
Sludge Disposal Alternatives for Boston,
W77-00016 1001 5E

Sludge Drying Beds are Practical, Part 1,
W77-00039 1001 5D

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Model Analysis of Effects on Water Levels at Indiana Dunes National Lakeshore Caused by Construction Dewatering,
W77-00863 1002 4B

Dewatering of Activated Sludge with Filter Belt Presses,
W77-01651 1004 5D

Dewatering Process,
W77-01738 1004 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

Study of Dewatering of Cellulosic Sludge from the Viscose Fiber Industry (Issledovanie po obezvozhivaniyu tsellyuloznogo shlama predpriyatii viskoznogo volokna),
W77-02575 1005 5D

Characterization and Dewaterability of Water Treatment Plant Residues,
W77-03130 1007 5D

A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

System for Dewatering Dilute Slurries,
W77-03352 1007 5D

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Minimizing the Waste Discharges from Water Treatment Plants,
W77-03455 1007 5D

Keeping up with Sludge at WPCF,
W77-04692 1010 5D

Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Continuous Solid-Bowl Centrifuges for Clarification and Dewatering of Sludges in the Paper Industry (Centrifugeuses continues a bol plein pour clarification et deshydratation des boues dans l'industrie papetiere).
W77-04817 1010 5D

Modified Water Extractor Recovers Bark Fines, Reduces Clarifier Upsets.
W77-04823 1010 5D

Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

DEWATERING

New Sludge-Dewatering Press Makes Its Debut at Glatfelter (Paper Mill).
W77-05695 1012 5D

Sludge Dewatering and Handling Practices in the U.S. Paper Industry,
W77-05714 1012 5E

Residual Saturation of Dewatered Filter Cakes,
W77-06121 1013 5D

Sludge Treatment Specialists.
W77-06132 1013 5D

New Screenings Removal and Dewatering Apparatus.
W77-06135 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Earth, Fire and Sludge,
W77-06153 1013 5E

Sludge Dewatering in Textile Plants,
W77-06226 1013 5D

Screenings Dewatering Press.
W77-07029 1014 5D

Sludge Dewatering on Alaska's North Slope,
W77-07030 1014 5D

The Use of Polymers for Improving Chemical Sludge Dewatering on Sand Beds,
W77-07033 1014 5D

Anaerobic Filter Treats Waste Activated Sludge,
W77-07078 1014 5D

Sludge Dewatering Pilot Plant Design. Part 2,
W77-07088 1014 5D

Factors Influencing the Dewatering Characteristics of Sludge,
W77-07097 1014 5D

Deep Wells for Dewatering Offer Real Advantages, Part I.
W77-07294 1015 8B

Sludge Dewatering by Belt Filter.
W77-07905 1016 5D

Multi-Stage Filter Press.
W77-07914 1016 5D

Continuous Thickening of Biological Sludges, and the Influence of Stability,
W77-07923 1016 5D

Deep Wells For Dewatering Offer Real Advantages, Part II,
W77-08325 1017 4B

Dewatering: A New Method Bows,
W77-08528 1017 5D

Characterizing Sludge for Centrifugal Dewatering,
W77-08535 1017 5D

Dewatering Machines (Entwasserungsmachinen),
W77-08544 1017 5D

Sludge Dewatering Press.
W77-08581 1017 5E

Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

Refinery Effluent Improved by Gravity-Pressure Dewatering,
W77-09420 1019 5D

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Character and Dewatering Properties of Sludges from Water Treatment,
W77-09881 1020 5D

Growth and Benefits of Low Speed Configuration,
W77-10622 1021 5D

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

Dewatering Machine,
W77-11019 1022 5D

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

Thermal Conditioning with Air.
W77-11696 1023 5D

The Pressure Drum Filter for Sludge Dewatering.
W77-11698 1023 5D

Basic Units Manufactured for Sludge Treatment.
W77-11699 1023 5D

The Waste Water Treatment Bergstrasse - Possibilities and Selection of the Sludge Treatment (Die Klaeranlage Bergstrasse - Moeglichkeiten und Wahl des Schlammbehandlungs-systems),
W77-11711 1023 5D

Current Sludge Research at the WRC,
W77-11741 1023 5E

Thermal Drying of Sludge,
W77-11743 1023 5E

More Disposal Operations Mixing Sewage Sludge and Municipal Solid Wastes,
W77-12418 1024 5E

Planning, Executing and Profiting from Polymer Trials,
W77-12425 1024 5D

Co-Disposal for Solid Wastes and Sewage Sludge,
W77-12426 1024 5E

Single-Hearth Screenings Incinerator.
W77-12440 1024 5E

Pollution Control by Incineration,
W77-12441 1024 5E

Conveyor System Moves Sewage Quickly, Prevents Spillage.
W77-12447 1024 8G

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

Process and Apparatus for the Treatment of Water-Containing Substances and Application of this Method for the Preparation of Pasteurized Dried Sludge,
W77-12946 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

Process of Dewatering Sewage Sludge,
W77-12952 1024 5D

Process for Dewatering Sewage Sludge,
W77-12953 1024 5D

DEWATERING PRESS

Screenings Dewatering Press.
W77-07029 1014 5D

DEZEGGE SWAMP (BELGIUM)

Investigation of the Hydrological Balance in a Peat Swamp,
W77-10768 1021 2F

DFP

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

DHARWAR (INDIA)

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

DIAGENESIS

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

DIALYSIS

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Purification of Waste Sulphuric Acid by Dialysis on Weakly-Basic Anion-Exchange Membranes (Dialityczne oczyszczanie odpawdow stezonego kwasu siarkowego przy pomocy slabozasadowych membran anionowymien-nych),
W77-06186 1013 5D

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

DIALYSIS BAGS

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

DIALYSIS MEMBRANE CHAMBERS

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

DIALYSIS SAMPLER

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

DIAMOND DRILLING BITS

Sparkle Plenty,
W77-04287 1009 8G

DIAMOND SHOALS (NC)
Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

DIASTERS
Disasters as a Necessary Part of Benefit-Cost Analyses,
W77-11765 1023 6B

DIATOM
Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

DIATOMACEOUS EARTH
Manganese and Iron Removal from Water by Adsorption on Diatomaceous Earth,
W77-00155 1001 5F

DIATOMS
The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

Effects of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariphyceae). II. Effect of Oxygen,
W77-00721 1002 5C

Kinetics of Silicon-Limited Growth in the Freshwater Diatom Asterionella Formosa,
W77-02035 1004 5C

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

The Proliferation in the Seine of a Tropical Benthic Diatom: Navicula Confervacea (Kutz.), (In French),
W77-04726 1010 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

Comparison of Benthic Diatom Communities in Lake Michigan and Lake Superior,
W77-06384 1013 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

Influence of Light and Temperature on the Photosynthetic Rate of Marine Benthic Diatoms,
W77-07385 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

The Utility of Paleolimnological Analyses of Lake Sediments for Evaluating Acid Precipitation Effects on Dilute Lakes,
W77-08103 1017 5A

The Productivity of Fouling Organism Associations in Lake Zelenetskoe, (In Russian),
W77-08323 1017 5C

Response of the Spokane River Diatom Community to Primary Sewage Effluent,
W77-09273 1019 5C

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

Filament Formation in the Diatom Skeletonema Costatum,
W77-09510 1019 5C

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

The Influence of Salinity on the Growth of Some Plankton Diatoms from Brackish Water,
W77-10146 1021 5C

Diatom Indicator Groups in the Assessment of Water Quality in the Jukskei-Crocodile River System (Transvaal, Republic of South Africa),
W77-10193 1021 5A

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

The Intensive Production of Fresh Water Algae, (In Dutch),
W77-11506 1023 5C

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

Limnological Studies on the Three Dammed Lakes, Constructed in the Watercourse of the Monobe River, Kochi Prefecture, (In Japanese),
W77-12364 1024 5C

Studies on Plover Cove Reservoir, Hong Kong III. A Comparison of the Species Composition of Diatom Floras on Different Substrates, and the Effects of Environmental Factors on Their Growth,
W77-12783 1024 5C

Effects of Continuous Enrichment with Nitrates on Populations of Diatoms Isolated with the Aid of Enclosures in an Oligotrophic Pond, (In French),
W77-12972 1024 5C

DIAZINON
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

DIAZONON
Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

DIBROMOPROPANE
Experimental Data on the Regulation of 1,2-Dibromopropane in Reservoir Water, (In Russian),
W77-08718 1018 5C

DICALCIUM PHOSPHATE
Solubility and Solubility Product of Dicalcium Phosphate Dihydrate in Aqueous Solutions and Soil Solutions,
W77-09979 1020 2G

DICHLORANILINE
Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

DICHLORFOS
Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

DICHLOROPHENOXYACETIC ACID
Ozone and Vascular Tissue Differentiation in Plants,
W77-02439 1005 5C

DICHLOROPHENYLUREA
Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

DICKEY-LINCOLN SCHOOL LAKE PROJECT (ME)
Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

DICKEY-LINCOLN SCHOOL LAKES (ME)
Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

DICTYOSPHAERIUM PULCHELLUM
The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

DIEL MIGRATION
Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

DIEL TEMPERATURE FLUCTUATIONS
Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

Laboratory Apparatus for Providing Diel Temperature Regimes for Aquatic Animals,
W77-07188 1015 5C

DIEL VARIATIONS
Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

DIELDRIN
Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Water-Sediment Distribution of Chlorinated Hydrocarbon Pesticides in Various Environmental Conditions,
W77-03660 1008 5B

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

DIESEL OIL
The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

DIETHYLNITROSOME
Toxicological Effects of Diethylnitrosamine (DENA) in Guppies (Lebistes Reticulatus), (In German),
W77-04100 1008 5C

DIETS
Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Partial Analysis of the Microplankton in the Lagoon of Pueblo Viejo, State of Vera Cruz, Mexico, (In Spanish),
W77-10066 1020 2L

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

DIFFERENCE CHROMATOGRAPHY
The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

DIFFERENTIAL SCANNING CALORIMETRY
A DSC (Differential Scanning Calorimetry) Study of Heat Capacity of Vicinal Water in Porous Materials,
W77-09734 1020 1B

DIFFERENTIAL STICKING
How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

DIFFERENTIAL THERMAL ANALYSIS
Power from the Sea,
W77-00977 1002 3E

Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

DIFFUSE AGRICULTURAL POLLUTION
A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

DIFFUSE POLLUTION SOURCES
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

DIFFUSED SURFACE WATER
The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

DIFFUSERS
Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

DIFFUSION
Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

Periodic Solutions of a Nonlinear Diffusion Equation Used in Groundwater Flow Theory: Examination Using a Hele-Shaw Model,
W77-04761 1010 2F

A Comparison of Techniques for Solving the Diffusion Equation with an Exponential Diffusivity,
W77-05162 1011 2G

A Perturbation Solution for a Nonlinear Diffusion Equation,
W77-05343 1011 2G

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

The Generation of Salinity Finestructure by Vertical Diffusion,
W77-07775 1016 2L

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

Thermal Loading of Natural Streams,
W77-09068 1018 5B

Simulation Factors Involved in Ocean Thermal Power Plants,
W77-10034 1020 5B

Soil Aeration,
W77-10325 1021 2G

Initial Dilution with Deepwater Diffusers,
W77-10974 1022 5B

A Kinematic Reference Frame for Estuaries of One Dimension,
W77-12109 1023 5B

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

Salt Sieving Within Clay Soil Aggregates,
W77-12278 1024 2G

Binary Gas Diffusion of Methane-Nitrogen Through Porous Solids,
W77-12323 1024 2F

DIFFUSION COEFFICIENT
Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

DIFFUSION COEFFICIENTS
Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

DIFFUSION RESISTANCE
An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

DIFFUSIVE RESISTANCE (PLANTS)
Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

DIFFUSIVITY
Radial Movement of Saturated Zone Under Constant Flux: Theory and Application to the Determination of Soil-Water Diffusivity,
W77-04249 1009 2G

Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

A Comparison of Techniques for Solving the Diffusion Equation with an Exponential Diffusivity,
W77-05162 1011 2G

On Solving the Infiltration Equation--A Comparison of Perturbation and Iterative Techniques,
W77-05348 1011 2G

Determining Soil Water Diffusivities from One-Step Outflow Experiments,
W77-05531 1011 2G

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

Flow Characteristics During Infiltration into a Horizontal Sand Column,
W77-08826 1018 2G

On the Physical Interpretation of the Soil Water Diffusivity in Terms of the Theory of Markov Processes,
W77-09594 1019 2G

DIFLUBENZURON (DIMILIN)
Gas-Liquid Chromatographic Determination of Diflubenzuron (Dimilin) in Water as Its Trifluoroacetyl Derivative,
W77-05691 1012 5A

DIGESTION
Energy Conservation Practices in Municipal Sludge Management,
W77-00018 1001 5D

Wastewater Plant Does Nicely Without Natural Gas, Thank You,
W77-02363 1005 5D

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Supernatant Decanting of Aerobically Digested Waste Activated Sludge,
W77-03450 1007 5D

Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

DIGESTION TANKS
Powdered Activated Carbon Improves Anaerobic Digestion,
W77-00067 1001 5D

Digestion is a Good Egg in Los Angeles,
W77-02365 1005 5D

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Peripheral Mixing Turns Sludge into Fuel Gas.
W77-11704 1023 5D

Anaerobic Waste Treatment Facility,
W77-12956 1024 5D

DIGHA (INDIA)
A Study to Forecast the Waves at Digha,
W77-06648 1014 2L

DIGITAL COMPUTERS
Direct Digital Control at the Iowa City Water-Treatment Plant,
W77-10585 1021 5F

DIISOPROPYLFLUOROPHOSPHATE
Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

DIKEROGAMMARUS
Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

DIKES
Diking Districts; Powers.
W77-01008 1002 6E

Utah Lake Diking Project.
W77-01010 1002 6E

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Water Quality Effect of Diking a Shallow Arid-Region Lake,
W77-02871 1006 5C

Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

DIKING DISTRICTS
Diking Districts; Powers.
W77-01008 1002 6E

DIKSON BAY (USSR)
Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

DILATANCY
Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

DILATATION
Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

DILUTION FACTOR (SEDIMENTS)
Evaluation of Sediment Yields Due to Urban Development,
W77-07705 1016 4D

DIMENSIONLESS DISPERSION COEFFICIENT
Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

DIMENSIONS
Some Arithmetical Relations of a Matrix for a Calculus of Reservoirs, (Quelques Relations Arithmetiques de Matrice dans le Calcul des Reservoirs),
W77-07682 1016 4A

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

DIMETHOATE
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

DIMETHYL SULFOXIDE
Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

DIMETHYLHYDRAZINE
Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

DIMETHYLNITROSAMINE
Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

Acute Toxicity of Water-Borne Dimethyl-nitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

DIMIDE
Experimental Substantiation of the Maximum Allowable Concentration of Dimide in Water Bodies, (In Russian),
W77-02907 1006 5C

DINITROANILINE HERBICIDES
Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

DINITROTOLUENE
Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

DINOBRYON
Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

DINOFLAGELLATES
Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

Red Tide in the Upwelling Region of Baja California,
W77-07169 1015 5C

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Interactions Between Population Density and Water Quality Parameters During a Dinoflagellate Bloom,
W77-09494 1019 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Red Tide in the Seto Inland Sea, (In Japanese),
W77-10509 1021 5C

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

The Red Tides of Malta,
W77-11334 1022 5C

Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

DINOSEB
Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

DINWOODY WATERSHED (WYO)
Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

DIOXATHION
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

DIP ANGLE (AQUIFERS)
Effect of Dip on the Storage of Fresh Water (or the Disposal of Waste) in a Saline Aquifer,
W77-08288 1017 4B

DIPHENAMID
Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

DIPLODUS-ANNULARIS
Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

DIPPING SYSTEM (WELLS)
Effect of Dip on the Subsurface Storage or Disposal of Fluid in Saline Aquifers,
W77-08204 1017 4B

DIPTERA
Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Growth and Production of Mass Species of Chironomids (Diptera, Tendipedidae) in the Volga Pre-Delta, (In Russian),
W77-01025 1002 5C

Character of Interrelations Between Chironomidae and Their Parasites, Mermithidae, (In Russian),
W77-01596 1004 5C

The Biomass and Production of the Macrobenthos of the Middle Course of the Saale River, (In German),
W77-02912 1006 5C

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Studies on the Japanese Chironimid Midges as a Nuisance: I. Larvicidal Effects of Some Organophosphorus Insecticides Against the Last Larvae of Chironomus Yoshimatsui Martin and Sublette, (In Japanese),
W77-04592 1009 5C

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

Qualitative and Quantitative Studies on the Meiofauna of a Tropical Fresh Water Stream Subject to Tidal Influence, (In Italian),
W77-07390 1015 5C

Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

Chironomid Fauna of the Upper Course of the Iseti River, (In Russian),
W77-09048 1018 5C

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

Studjes on the Bottom Fauna of Four Lakes in Eastern Hikkaido (Lakes Kusshyaro-Ko, Akan-Ko, Toro-Ko and Shikaribetsu Ko, (In Japanese),
W77-10028 1020 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

Emergence of Chironomidae (Diptera) from Char Lake, Resolute, Northwest Territories,
W77-11652 1023 5C

Limnological Studies on the Three Dammed Lakes, Constructed in the Watercourse of the Monobe River, Kochi Prefecture, (In Japanese),
W77-12364 1024 5C

DIQUAT
Diquat and Endothall: Their Fates in the Environment,
W77-05204 1011 5B

Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Effects of Field Applications of the Herbicide Diquat and Dichiobenil on Amphibians,
W77-06492 1013 5C

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

DIQUAT DIBROMIDE
Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

DIRECT DRILLING (CROPS)
Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

DIRECT FILTRATION
Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

DIRECT FLOW RIGHTS
Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

DIRECT SEARCH METHOD
Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

DISASTER
The Big Thompson Flood of 1976 in Colorado,
W77-04247 1009 2E

DISASTER ASSISTANCE PROJECT
Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

DISASTER INFORMATION CENTER
Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

DISASTER RECOVERY
Disaster Recovery Planning Report.
W77-05293 1011 6F

DISASTERS
Disaster Recovery Planning Report.
W77-05293 1011 6F

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

Supertankers and the Law of the Sea,
W77-11472 1022 6E

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

DISC ROTATION
Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

DISCHARGE
Criminal Prosecution for Water Pollution.
W77-11192 1022 6E

DISCHARGE BARRIER NET
Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

DISCHARGE COEFFICIENT
Characteristics of Proportional Weirs,
W77-05355 1011 8B

Analysis of Flows with Initially Unknown Discharge,
W77-05968 1012 8B

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

DISCHARGE MEASUREMENT
Discharge Characteristics of Spaced Slits in Polyethelene Pipes Under Pulsating Pressure Conditions,
W77-01443 1003 3F

Characteristics of Proportional Weirs,
W77-05355 1011 8B

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

Discharge Data at Water-Quality Monitoring Stations in Arkansas, 1976 Water Year,
W77-09997 1020 7C

Bibliography on Discharge Measurement Techniques,
W77-11594 1023 10C

Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

DISCHARGE PERMIT PROVISIONS
PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

DISCHARGE PERMITS
Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

DISCHARGE (WATER)
Float Calibration in Integrated-Float Techniques,
W77-00088 1001 7B

Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

Organic Compounds in Pulp Mill Lagoon Discharge,
W77-02558 1005 5A

Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

On the Precision of Salt Dilution Gauging,
W77-04875 1010 2E

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

Legal Aspects of Changes Brought About by Buckeye's Pollution Abatement Program, Part II,
W77-07261 1015 6E

Spatial and Time Analysis and Estimation of River Flow,
W77-07654 1016 2E

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

Amador Valley Investors v City of Livermore (The Acts of a City are not Privileged When Private Property Damage Results from Inadequate Planning of Waste Disposal).
W77-11181 1022 6E

Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

Bibliography on Discharge Measurement Techniques,
W77-11594 1023 10C

Processing Changes and Closed Systems Designed for Minimum Effluent Discharge from the Manufacture of Paper Pulp (Processandringar och slutna system for att minska utslapp fran tillverkning av pappersmassa),
W77-12361 1024 5D

Temperature of Missouri Streams,
W77-12385 1024 7C

Initial Dilution with Deepwater Diffusers,
W77-12408 1024 5E

DISCONTINUED OBSERVATION WELLS
Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

DISCOUNT RATE
Principles of Determining a Social Discount Rate,
W77-02518 1005 6B

DISCOUNT RATES
The Use of Crossover Discount Rates in Irrigation Scheme Design,
W77-11401 1022 3F

DISCRETE DIFFERENTIAL DYNAMIC PROGRAMMING
Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

DISCRETE MODELS
Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

DISCRETE SETTLING
Numerical Model for Discrete Settling,
W77-11593 1023 8B

DISCRETIONARY DIVERSION
Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

DISCRIMINANT ANALYSIS
Polluter Discriminant Analysis,
W77-01166 1003 5G

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

Discriminant Analysis of Characteristics Determining Acceptance or Rejection of Nuclear Power,
W77-08109 1017 6B

Effect of Antecedent Conditions on Frozen Ground Floods,
W77-10175 1021 2C

DISDROMETERS
A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

DISEASE DETECTION
Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

DISEASE SCREENING
Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

DISEASE SYMPTOMS
Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

DISEASE VECTORS
Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

DISEASES
Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

National Cancer Institute Program of Cancer Surveillance, Epidemiology and End Results Reporting (Seer Program),
W77-02843 1006 5A

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Is There a Potential for Parasitic Disease Transmission from Land Application of Sewage Effluents and Sludges,
W77-11750 1023 5E

Impact of Water Resources on Vector-Borne Diseases,
W77-11774 1023 5B

DISECONOMIES OF SCALE

Do Economies of Scale Exist in Water Utility,
W77-09450 1019 5F

DISINFECTION

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

Treatment of Sewage.
W77-00572 1002 5D

Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Method of Disinfecting Water,
W77-01734 1004 5F

Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Effectiveness of Continuous Chlorination of Well Water by Dosage Cartridges in Transcarpathia, (In Russian),
W77-02256 1005 5F

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

Adsorption as a Protective Mechanism for Waterborne Viruses,
W77-04997 1010 5F

Disinfection of Viruses in Sewage by Ozone,
W77-06128 1013 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

Ozonation of Reclaimed Water.
W77-06141 1013 5D

A Refresher on Sodium Hypochlorite.
W77-06142 1013 5D

A Potential Organic Disinfectant for Water Purification,
W77-06250 1013 5D

Water Decontamination in Northern Regions by Impulse Electric Charges, (In Russian),
W77-06791 1014 5D

The Current Role of Wastewater Disinfection,
W77-07064 1014 5D

Ozonation in a Better Perspective,
W77-07293 1015 5D

Studies on Virus Inactivation by Chlorine During Water Disinfection, (In German),
W77-07595 1015 5F

Kinetics of Breakpoint Chlorination and Disinfection,
W77-08095 1016 5D

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Ozone and Chlorine in Waste Water Disinfection,
W77-08536 1017 5D

Chlorobiphenyls and PCB's: Formation During Chlorination,
W77-08538 1017 5A

Sewage Sludge Disinfected by Electron-Beam Bombardment.
W77-08580 1017 5D

Ozone Disinfection of Secondary Effluent,
W77-08638 1018 5D

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Disinfection of Waste Water by Photodynamic Oxidation,
W77-09852 1020 5D

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

Hygienic Effectiveness of Disinfection of Sewage After its Mechanical Treatment (Gigienicheskaia effektivnost' obezzarazhivaniia bytovykh stochnykh vod, proshedshikh mekanicheskuiu ochistku),
W77-10605 1021 5D

Evaluation of the Effectiveness of Dehelmintization of Waste Water During Mechanical Treatment at Smolensk (Otsenka effektivnosti degel' mintizatskii stochnykh vod pri mekhanicheskoi ochistke v Smolenske),
W77-10636 1021 5D

The Enhancement of High-Rate Disinfection by the Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11491 1022 5D

Disinfection and Odor Control.
W77-11497 1022 5D

Studies on Disinfection and Chemical Oxidation with Ozone and Chlorine in Water Reclamation,
W77-11572 1023 5F

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

Hygienization of Sewage Sludge by Electron Irradiation,
W77-11712 1023 5E

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Disinfection, (Literature Review),
W77-11730 1023 5D

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants: Volume I - Grandville, Michigan,
W77-11762 1023 5D

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

Bromine Chloride: An Alternative Disinfectant to Chlorine,
W77-12634 1024 5F

Disinfection System and Method,
W77-12923 1024 5D

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

DISON BROOK (BELGIUM)

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

DISPERSAL PATTERNS

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

DISPERSANTS

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Oil-Spill Dispersant for Marine Pollution.
W77-11549 1023 5G

DISPERSED PETROLEUM DERIVATIVES

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

DISPERSION

Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

Development of the 'Next Generation' Chemical Dispersants,
W77-00227 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Similarity of the Mean Motion of Fluid Particles Dispersing in a Natural Channel,
W77-00371 1001 5B

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

A Method for Determining the Dispersive Capacity of Preparations used for Removing Oils from Water Surface, (In Russian),
W77-01028 1002 5B

Oil-Spill Dispersant for Marine Pollution (Lekoliedispergeermiddel vir seebesoedeling).
W77-01387 1003 5G

The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges.
W77-01806 1004 5A

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

A Comparison of Lumped-Parameter and Diffusional Models Describing the Effects of the Outlet Boundary Conditions on the Mixing in Flow Systems,
W77-02147 1005 2L

A Simple Dispersion Model of the Mean Concentration Field in the Western and Central Basins of Lake Erie,
W77-02795 1006 2H

Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Convective Model of Longitudinal Dispersion,
W77-02988 1006 5B

Dispersion--Mississippi River Below Baton Rouge, La.,
W77-02989 1006 5B

Transverse Dispersion in Meandering Channels,
W77-03644 1008 2E

Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

Some Remarks on Computer Modeling of Coastal Flows,
W77-04897 1010 5B

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

Atmospheric Dispersion Characteristics in the Louisiana Coastal Zone,
W77-05132 1011 5A

Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W77-06010 1012 2A

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Analysis of Flow Against Dispersion in Porous Media,
W77-07150 1015 2F

Convective-Dispersion in Perennial Streams,
W77-07160 1015 5B

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Detergent Composition for Dispersing Oil Spills,
W77-08884 1018 5G

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

Dispersion Measurement on the Danube,
W77-09040 1018 5B

Dispersion Model for an Instantaneous Source of Pollution in Natural Streams and Its Applicability to the Big Blue River (Nebraska),
W77-09183 1019 5B

What Are We Doing About Oil Spill,
W77-09553 1019 5G

Hydrodynamic Dispersion in Porous Materials,
W77-10131 1021 2G

Analytical Model of Dispersion in Tidal Fjords,
W77-10303 1021 5B

Consequences du Deplacement des Sediments sur la Dispersion des Radionucleides, (The Effect of Sediment Displacement on the Dispersal of Radionuclides),
W77-10402 1021 5B

Longitudinal Dispersion in Porous Media with Variable Porosity,
W77-10659 1021 2F

Deterministic and Stochastic Approaches for Modelling of Longitudinal Dispersion in a Turbulent Open Channel Flow,
W77-10794 1021 5B

Dispersion of Sediment Particles,
W77-10795 1021 2J

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

Studies of Pressure and Energy of Standing Waves,
W77-10964 1022 8B

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

Numerical Model for Discrete Settling,
W77-11593 1023 8B

Some Remarks on Computer Modeling of Coastal Flows,
W77-11781 1023 2L

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Observations of an Ash Lagoon Spill on the New River, Virginia,
W77-12219 1023 5B

Prediction of Longitudinal Dispersion in Natural Streams,
W77-12330 1024 2E

Descriptive Water Quality (Dispersion) Model for the Danube Section Between Szob and Budapest (A Duna, Szob es Budapest kozotti vonatkozo, leiro jellegu visminosegi (diszperzios) modell),
W77-12412 1024 5B

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

Hydrodynamic Dispersion in Unsaturated Porous Media: II. The Stagnant Zone Concept and the Dispersion Co-Efficient,
W77-12863 1024 2G

DISPERSION-DIFFUSION COEFFICIENTS
Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

DISPERSION MODELS
Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W77-06010 1012 2A

DISPOSABLE ELECTRODE CHAMBER
Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

DISPOSAL
Fourth Semiannual Interagency Briefing, February 1975, Washington, D.C.,
W77-02158 1005 8G

Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

DISPOSAL AREAS
Mathematical Model for Predicting the Consolidation of Dredged Material in Confined Disposal Areas,
W77-00167 1001 5B

DISPOSAL FIELDS
Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

DISPOSAL SITES
Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

DISSOLUTION RATE
Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

DISSOLVED AIR FLOTATION
Treatment of Combined Sewer Overflows,
W77-10542 1021 5D

DISSOLVED ATMOSPHERIC GAS
Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

DISSOLVED ATMOSPHERIC GASES
Influence of Dissolved Atmospheric Gas on Swimming Performance of Juvenile Chinook Salmon,
W77-05084 1010 5C

DISSOLVED CONSTITUENTS
Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

DISSOLVED GAS
Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

DISSOLVED GAS CONTENT
Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

DISSOLVED GAS MONITORING
Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

DISSOLVED GAS PRESSURE
An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

DISSOLVED GAS SUPERATURATION
An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

DISSOLVED GAS SUPERSATURATION
Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

DISSOLVED GASES
Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

A Hand-Operated In Situ Water Sampler,
W77-07200 1015 5A

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

DISSOLVED HELIUM
Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

DISSOLVED INORGANIC CARBON (DIC)
The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

DISSOLVED MANGANESE
A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay,
W77-03556 1007 5B

DISSOLVED NITROGEN
Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

DISSOLVED NITROGEN GAS
Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

DISSOLVED NITROGEN SUPERSATURATION
Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

DISSOLVED ORGANIC CARBON
Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

DISSOLVED ORGANIC MATTER
The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

DISSOLVED OXYGEN
Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Mathematical Modeling for Water Quality Management in Streams Under Unsteady Hydraulic Conditions,
W77-01946 1004 5B

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

Hydrochemical Characteristics of the Orel River, (In Russian),
W77-02234 1005 5A

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Chemical Catalyst Interference in the Winkler Titration Determination of Dissolved Oxygen -- A Method for Correction,
W77-02564 1005 5A

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

Primary Production and Oxygen Budget in a Stream of the Central Pyrenees, (In French),
W77-02916 1006 5C

Falls Lake Water-Quality Study; Hydraulic Laboratory Investigation,
W77-02941 1006 5B

B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

Methods of Dissoled Oxygen Budget Analysis for Assessing Effects of Dredged Material Disposal on Biological Community Metabolism,
W77-03393 1007 5C

Oxygen and Air Activated Sludge: Another View,
W77-03444 1007 5D

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Effect of High Dissolved Oxygen Concentration in Activated Sludge Systems,
W77-03571 1007 5D

Effect of Various Factors on Glucose Decomposition Rate in Natural Waters, (In Russian),
W77-03862 1008 5C

Processes of Dissolved Oxygen Depletion in Tims. Ford Reservoir,
W77-04327 1009 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Solubility of Oxygen in Water, Saturation Values for Fresh Water and Mixtures of Fresh and Sea Water,
W77-04864 1010 5B

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Surface-Water Quality Management Models,
W77-05014 1010 5G

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

The Use of Oxygen Deficit Measurements as an Index of Eutrophication in Temperate Dimictic Lakes,
W77-05222 1011 5C

Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

Influence of Oxygen Tension on Metabolic Rate of Macrobenthos Species of Western Baltic and Kattegat, (In German),
W77-06274 1013 5C

Movement of Rainbow Trout Across a Metalimnion Deficient in Dissolved Oxygen,
W77-06417 1013 5C

Effect of Varying Oxygen Concentrations on the Filtering Rate of Daphnia Pulex,
W77-06473 1013 5C

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

A Hand-Operated In Situ Water Sampler,
W77-07200 1015 5A

Anthropogenically Reduced Groundwaters,
W77-07360 1015 5B

Respiratory Responses of Gillichthys Mirabilis to changes in Temperature, Dissolved Oxygen and Salinity,
W77-07401 1015 5C

Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Factors Affecting the Denitrification Rate in Two Water-Sediment Systems,
W77-08517 1017 5B

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Effect of the Boundary Surface Between Sea and Fresh Waters on the Distribution of Dissolved Oxygen in the Mouth Region of the Dnieper River,
W77-08832 1018 5B

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Modifications to Qual - II to Evaluate Wastewater Storage,
W77-09186 1019 5D

Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp,
W77-09286 1019 5C

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

Studies on the Bottom Fauna of Four Lakes in Eastern Hikkaido (Lakes Kusshyaro-Ko, Akan-Ko, Toro-Ko and Shikaribetsu Ko, (In Japanese),
W77-10028 1020 5C

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Oxygen-Sag in a Tidal River,
W77-10114 1021 5B

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Solving Stream Pollution Control Problems with Digital Computer and Modelling Techniques,
W77-10596 1021 5B

A Summary of Receiving Water Dissolved Oxygen Conditions Below Pulp and Paper Mill Locations,
W77-10705 1021 5B

Control of Water Quality in Polluted Streams,
W77-10834 1022 5G

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

Ammonia Toxicity,
W77-10946 1022 5C

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

Acute Temperature and Low Dissolved Oxygen Tolerances of Brachyuran Crab (Cancer Irroratus) Larvae,
W77-11332 1022 5C

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

Effects of Dissolved Oxygen on Survival and Behavior of Selected Fishes of Western Lake Erie,
W77-11514 1023 5C

Automatic Dissolved Oxygen Control,
W77-11752 1023 5D

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

New Oxygen Meters.
W77-12399 1024 5A

Metering Total Oxygen Demand,
W77-12416 1024 5A

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

DISSOLVED OXYGEN ANALYZERS

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Movement of Rainbow Trout Across a Metalimnion Deficient in Dissolved Oxygen,
W77-06417 1013 5C

Oxygen Injection Blows New Life Into Drought Hit Sewage Treatment Works,
W77-11702 1023 5D

New Oxygen Meters.
W77-12399 1024 5A

Metering Total Oxygen Demand,
W77-12416 1024 5A

DISSOLVED OXYGEN DEPLETION

Processes of Dissolved Oxygen Depletion in Tims. Ford Reservoir,
W77-04327 1009 5C

DISSOLVED SILICA

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

DISSOLVED SOLIDS

The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Investigation of Detection Limits for Solutes in Water Measured by Laser Raman Spectrometry,
W77-08171 1017 2K

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in

the Northwest Florida Water Management District,
W77-08467 1017 7C

The Behaviour of Dissolved Iron, Manganese and Zinc in the Beaulieu Estuary, S. England,
W77-08701 1018 5B

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Significance of Water Quality to Water Resources,
W77-12714 1024 5G

DISSOLVED TRANSPORT

Total Mineral Dissolved Transport by World Major Rivers,
W77-01135 1003 5B

DISTELLERY WASTE

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

DISTILLATION

Pyrolysis of Sewage Sludge,
W77-00024 1001 5E

Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

Drinking Water Supply in Krasnovodsk, (In Russian),
W77-02902 1006 3A

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Distillation Apparatus and Method,
W77-09804 1020 3A

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

Development and Testing of a Wastewater Recycler and Heater,
W77-12493 1024 5D

History, Status and Future of Distillation Processes,
W77-12631 1024 3A

DISTILLATION APPARATUS

Systems for Solar Distillation,
W77-11618 1023 3A

DISTILLATION PROCESSES

Systems for Solar Distillation,
W77-11618 1023 3A

DISTILLERY WASTES

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

DISTILLERY WASTES RECOVERY

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

DISTRIBUTED DATA BASE

Information Transferral within a Distributed Data Base Via a Generalized Mapping Language,
W77-07813 1016 6A

DISTRIBUTING CHANNELS

Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

DISTRIBUTION

Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

The Temperature of Two Welsh Lakes and Its Effect on the Distribution of Two Freshwater Insects,
W77-00878 1002 5C

Cladophora in the Great Lakes,
W77-00928 1002 5C

Distribution of the Phytophylic Invertebrates and Methods of their Quantitative Estimation, (In Russian),
W77-01040 1002 5C

Temperature and the Vertical Distribution of Two Tidepool Fishes (Oligocottus Maculosus, O. Snyderi),
W77-01060 1003 5C

Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay,
W77-01061 1002 5C

Distribution and Bioaccumulation of Mercury in Biotic and Abiotic Compartments of a Contaminated River-Reservoir System,
W77-01297 1003 5C

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

Some Aquatic Vertebrates from the Namib Desert, South West Africa,
W77-01493 1003 2I

The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

Study on the Characteristic Distribution of Phosphate in Junhae Bay, (In Korean),
W77-01571 1004 5B

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

Ice Movement and Distribution in the Bering Sea from March to June 1974,
W77-02482 1005 2C

Distributions of 2,4-D and Water in Soil During Infiltration and Redistribution,
W77-02542 1005 5B

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

The Groundwater Fauna of the Saale River Drainage Area (Thuringia), (In German),
W77-02913 1006 5C

Distribution of Amphipoda in the Dniester Estuary and its Possible Changes in Connection with the Regulation of the Dniester River, (In Russian),
W77-02914 1006 5C

Characteristics of the Distribution of Mollusks of the Family Unionidae in the Kremenchug Reservoir, (In Russian),
W77-02921 1006 2H

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

Environmental Status of the Lake Michigan Region. Vol. 17. Inland Fishes of the Lake Michigan Drainage Basin,
W77-03566 1007 6G

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

Long-Term Effects of Methylmercuric Chloride on Three Generations of Brook Trout: Toxicity Accumulation, Distribution and Elimination,
W77-04031 1008 5C

Distribution and Abundance of Heavy Metals in Finfish, Invertebrates and Sediments Collected at a Deep Water Disposal Site,
W77-04046 1008 5B

Molecular Test for Oil Pollution in Surface Sediments,
W77-04058 1008 5B

Sinepower Probability Density Function,
W77-04276 1009 2E

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

Equipment and Techniques for Monitoring the Vertical Distribution of Fish in Shallow Water,
W77-04416 1009 5C

The Distribution of Callitriche Obtusangula Legall in the Streams of the Friedberger au Region, (In German),
W77-04588 1009 5C

The Proliferation in the Seine of a Tropical Benthic Diatom: Navicula Confervacea (Kutz.), (In French),
W77-04726 1010 5C

Soil Water Movement: Infiltration, Redistribution, and Groundwater Movement,
W77-04776 1010 2G

Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

Bacterial Distributions in Lake Erie (1967, 1970),
W77-05227 1011 5C

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

Seasonal Distribution and Abundance of Crustacean Zooplankton in Lake Erie, 1970.
W77-05233 1011 5C

Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

Seasonal Distribution and Abundance of Ohio River Fishes at the J. M. Stuart Electric Generating Station,
W77-05584 1011 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

The Distribution and Long Term Changes in Abundance of Larval Ammodytes Marinus (Raitt) in the North Sea,
W77-05835 1012 2L

Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Vertical and Seasonal Variability of Fish Eggs and Larvae at Ocean Weather Station 'India',
W77-05840 1012 2L

The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

Vertical Migrations of Larvae of the Atlanto-Scandian Herring (Clupea Harengus L.),
W77-05842 1012 2L

The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Comparison of Benthic Diatom Communities in Lake Michigan and Lake Superior,
W77-06384 1013 5C

Distribution of Assimilates in Soybeans During Fruit Growth in Flooded Soil, (In Russian),
W77-06421 1013 3F

Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

Distribution Thickness and Certain Physical and Chemical Properties of Bottom Sediments in the Kiev Reservoir, (In Russian),
W77-07321 1015 2J

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Thermal and Chemical Problems of Thermal Waters, Symposium.
W77-08677 1018 2K

Temperature and Chemism of Ground Waters in the Western Areas of the East European Platform,
W77-08683 1018 2K

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

Ecological Studies on Algal-Lysing Bacteria in Fresh Waters,
W77-09469 1019 5C

Distribution and Seasonal Variation of Benthic Fauna in Lake Manitoba,
W77-09484 1019 5C

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

Distribution of Plutonium in Trinity Soils After 28 Years,
W77-09647 1020 5B

Chemical Distribution and Gaseous Evolution of Arsenic-74 Added to Soils as DSMA-(74)AS,
W77-09659 1020 5B

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

Relation Between the Kinetics of Nitrogen Transformation and Biomass Distribution in a Soil Column During Continuous Leaching,
W77-09973 1020 2G

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

Vertical Distribution, Composition, and Abundance of Crustacean Zooplankton in the Offshore Waters of Lake Michigan,
W77-11142 1022 5C

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Infiltration and Redistribution of Water in Soils, (In Dutch),
W77-11471 1022 2G

Distribution of Plutonium-237 in a Littoral Freshwater Microcosm,
W77-11530 1023 5B

DISTRIBUTION

Limnological Studies of the Ono Reservoir: Third Report, (In Japanese),
W77-11713 1023 5C

Water Status and Distribution of Cyanidium Calderium in Soil,
W77-11788 1023 2G

Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

The Major Plant Formations of the Izhevsk Reservoir and Their Productivity, (In Russian),
W77-12325 1024 2H

Distribution and Ecological Significance of Vitamin B12 and Thiamin in Three Lakes, (In French),
W77-12334 1024 2H

Uniformity of Distribution in Undertree Irrigation in Orchards,
W77-12508 1024 3F

Primary Production and Chlorophyll Content in the Baltic Sea: Part II. Chlorophyll-A Distribution,
W77-12591 1024 5C

Distribution and Seasonal Variability of Micronutrients in Certain Salt Affected Soils of Northern Greece,
W77-12756 1024 5B

Preliminary Analysis on the Distribution of Porifera in Areas Exposed to Different Types of Pollution, (In Italian),
W77-12976 1024 5B

The Law of Probability Distribution for the Zooplankton Biomass in Lake Baikal, (In Russian),
W77-12984 1024 2H

Experimental Modeling and Mathematical Description of Radionuclide Metabolism in the System 'Aqueous Medium-Hydrobionts', (In Russian),
W77-12993 1024 5B

Soil Moisture Retention of Soil Profiles, (In Hungarian),
W77-12997 1024 2G

DISTRIBUTION EFFICIENCY

Sprinkler Method of Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-12840 1024 3F

DISTRIBUTION FUNCTION

Law of Probability for Two Low Water Variables,
W77-10297 1021 2E

DISTRIBUTION PATTERNS

Number, Generation Time and Production of Bacteria in Water of the Saratov Reservoir, (In Russian),
W77-00143 1001 5C

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

Statistical Models for Precipitation,
W77-00537 1002 2B

Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Seasonal Distributions of Larval Flatfishes (Pleuronectiformes) on the Continental Shelf Between Cape Cod, Massachusetts, and Cape Lookout, North Carolina, 1965-66,
W77-01064 1002 2L

A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Calcium Carbonate Distribution in the Surface Sediments of the Indian Ocean,
W77-01919 1004 2L

Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

The Early Life History of Fish,
W77-05821 1012 5C

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

Degree of Precipitation Irregularity as an Indication of Landscape Zonality,
W77-06307 1013 2B

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

Temperature Relations of Puget Sound Thaids in Reference to Their Intertidal Distribution,
W77-06767 1014 5C

Heat Resistance of Gametes of Marine Invertebrates in Relation to Temperature Conditions Under Which the Species Exist,
W77-06771 1014 5C

Dispersal and Dispersion of Pond Snails in an Experimental Environment Varying to Three Factors, Singly and in Combination,
W77-06773 1014 5C

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Structure of Phytoplankton Associations in Lake Tahoe (California-Nevada),
W77-07473 1015 5C

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

The Ecology of Chydoridae (Cladocera) of Lake Baikal (In Russian),
W77-10064 1020 2H

Annual Rainfall Frequency Distributions for 80 Rainfall Districts in South Africa,
W77-10206 1021 2B

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Law of Probability for Two Low Water Variables,
W77-10297 1021 2E

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Studies on Plover Cove Reservoir, Hong Kong III. A Comparison of the Species Composition of Diatom Floras on Different Substrates, and the Effects of Environmental Factors on Their Growth,
W77-12783 1024 5C

The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

DISTRIBUTION SYSTEMS

40 GPM. It Works If You Have Enough Wells,
W77-01762 1004 4B

A Distributed Converging Overland Flow Model 1. Mathematical Solutions,
W77-04744 1010 2E

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Irrigation and Irrigation Districts.
W77-08396 1017 6E

Irrigation Sprinkling Apparatus with Adjustable Ground Contacting Elements,
W77-08886 1018 3F

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

Grove Irrigation System,
W77-09800 1020 3F

Estimating Seepage Losses from Canal Systems,
W77-12608 1024 4A

DISTRICT OF COLUMBIA

Effect of Land Development on Soil Erosion and Sediment Concentration in an Urbanizing Basin,
W77-02793 1006 4C

Potomac River (Hearings on the State of the Potomac River as to Water Supply and Water Pollution).
W77-11449 1022 6E

DISTROPHY

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

DISULFATION

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

DITCHES

Gowing V MC Candless (Crop Damage Resulting from Flooding of Obstructed Watercourse).
W77-00999 1002 6E

Mining and Manufacturing Corporations.
W77-01118 1003 6E

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

Ditch Companies.
W77-03501 1007 6E

Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

Water Districts and Commissioners.
W77-08406 1017 6E

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

DITHIOCARBAMATES

Effluent Treatment,
W77-00697 1002 5D

DIURNAL

Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

A Diurnally Fluctuating Thermal System for Studying the Effect of Temperature on Aquatic Organisms,
W77-06291 1013 5C

Laboratory Apparatus for Providing Diel Temperature Regimes for Aquatic Animals,
W77-07188 1015 5C

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Diurnal Soil Water Regime in the Tilled Plow Layer of a Warm, Humid Climate,
W77-11826 1023 2G

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

DIURNAL DISTRIBUTION
Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

Variations in Nitrogen and Organics in Wastewaters,
W77-11735 1023 5D

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

DIURNAL MIXING
The Effects of Diurnal Mixing on Thermal Stratification of Static Impoundments,
W77-05172 1011 4A

DIURON
Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

DIVERGENCE
Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

DIVERSIFIED FARMING
Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

DIVERSION
Study of Sanitary Problems in Connection with Inter-Basin Transfer of River Runoff, (In Russian),
W77-02905 1006 5C

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Head Gates; Powers of State Engineer.
W77-03507 1007 6E

Cache La Poudre Water Users Association V Glacier View Meadows (Appropriation of Water in Plan of Augmentation).
W77-03520 1007 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

Recent Developments in the Recognition of Instream Uses in Western Water Law,
W77-06044 1012 6E

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

Withdrawal of Certain Waters from Appropriation: Special Municipal and County Water Rights,
W77-08142 1017 6E

Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

Bank of America National Trust and Saving Association V State Water Resources Control Board (Condition Placed on Water Permit Defeated for Lack of Evidence of Necessity).
W77-08391 1017 6E

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

Low Flow Criteria for Diversions and Impoundments,
W77-11778 1023 4A

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

DIVERSION LOSSES
Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

DIVERSION STRUCTURES
83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

Garrison Diversion Unit Irrigation Project: Prospects and Problems, Part 2.
W77-04365 1009 6E

Flood Plain Information: Redwood River at Marshall, Minnesota.
W77-06584 1013 4A

An Assessment of the Impact of Water Impoundment and Diversion Structures on Vegetation in Southern Arizona,
W77-11429 1022 4A

DIVERSION TUNNELS
Observed Channel Changes in a Mountain Stream Due to Increased Flow From Transbasin Imports,
W77-00829 1002 8B

DIVERSITY INDEX
Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

DIVERSITY (PHYTOPLANKTON)
Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

DIVING EQUIPMENT
Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

DIVINYLBENZENE
Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

DJERDAP RESERVOIR
Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

DNA
Quantitative Nucleic Acid Histochemistry of the Yolk Sac Syncytium of Oviparous Teleosts: Implications for Hypotheses of Yolk Utilization,
W77-05850 1012 5C

DNEPR RIVER (USSR)
Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

DNIEPER RESERVOIRS (USSR)
Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

DNIEPER RIVER
Effect of the Discharge Waters of the Tripol'e Thermal Electric Station of the Thermal Regime of the Dnieper, (In Russian),
W77-00408 1001 5C

Effect of the Boundary Surface Between Sea and Fresh Waters on the Distribution of Dissolved Oxygen in the Mouth Region of the Dnieper River,
W77-08832 1018 5B

DNIEPER RIVER RESERVOIRS (USSR)
Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

DNIEPER RIVER (USSR)
Change of the Biochemical Composition of Mussels Under Conditions of Regulated Flow of the Dnieper, (In Russian),
W77-00281 1001 5C

Factors Determining Aspects of Fish Parasitofauna Formation in the Kakhovka Reservoir, (In Russian),
W77-02246 1005 5C

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

DNIESTER ESTUARY (USSR)
Distribution of Amphipoda in the Dniester Estuary and its Possible Changes in Connection with the Regulation of the Dniester River, (In Russian),
W77-02914 1006 5C

DOCKS
Hefferline V Langkow (Structural Rights of Adjacent Riparian Landowners),
W77-04930 1010 6E

DOCUMENTATION
1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 2, Indexes.
W77-09345 1019 10C

Earth Resources--A Continuing Bibliography with Indexes.
W77-09346 1019 10C

DOGFISH
Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

DOGLEGS
Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

DOLERITE
The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

DOLPHINS
Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

DOMESTIC ANIMALS
The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

DOMESTIC WASTES
Characteristics of Rural Household Wastewater,
W76-00048 1001 5A

Basf Completes Ten-Year Project for Cleaning up the Rhine,
W77-00403 1001 5D

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

The Delineation and Growth of a Sludge Field,
W77-00603 1002 5C

Liquid Treatment Apparatus,
W77-00699 1002 5D

Garbage Pollution, Disposal into Streams.
W77-00990 1002 6E

Urban Solid Wastes Engineering,
W77-01379 1003 5E

Separation Chamber, Holding Tank, Drainage System,
W77-01750 1004 5D

Salt Water Domestic Waste Treatment,
W77-02353 1005 5D

A Study of Mixing Characteristics of Sewage Stabilization Ponds with Radioactive Tracers,
W77-03461 1007 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

The Optimization of Chemical Precipitation: Flocculation of Municipal Waste Waters,
W77-05324 1011 5D

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Private Sewage Disposal in Maine.
W77-06371 1013 5G

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

Canwel Can Do,
W77-06985 1014 5D

Hydrocarbon Products Manufacture--By Carbonisation of Coal, Scrap Rubber or Plastic or Domestic Sewage Under Reduced Pressure.
W77-07000 1014 5D

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

Adsorption, Coagulation and Filtration Make a Useful Treatment Combination-Part 2,
W77-07077 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

Oil-Flushed Toilets Gain,
W77-08583 1017 3D

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Gravitational Separator,
W77-09821 1020 5D

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

Protecting Ground Water from Domestic Wastewater Effluent,
W77-10520 1021 5G

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-10721 1021 5D

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

Waste Segregation as a Means of Enhancing Onsite Wastewater Management,
W77-12430 1024 5D

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Sewage Treatment System,
W77-12692 1024 5D

DOMESTIC WATER
Characteristics of Rural Household Wastewater,
W76-00048 1001 5A

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

The Effects of Pressure on Domestic Water Supply Including Observations on the Effect of Limited Garden-Watering Restrictions During a Period of High Demand,
W77-01360 1003 3D

Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

A Potential Organic Disinfectant for Water Purification,
W77-06250 1013 5D

Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

What We Can Do Before the Well Runs Dry--A Summary of WRC Report No. 35 --Residential Water conservationMilne,
W77-08101 1017 3D

Get Ready for Dual Water Systems,
W77-08645 1018 5G

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

Segregation and Reclamation of Household Wastewater at an Individual Residence,
W77-08806 1018 5D

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

Efficiency in Industrial, Municipal and Domestic Water Use,
W77-10375 1021 6D

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

Waste Segregation as a Means of Enhancing Onsite Wastewater Management,
W77-12430 1024 5D

DOMESTIC WATER SOURCES
Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

DOMINANT ORGANISMS
A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

DOMINANT OWNERS
Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

DOMINANT TRACTS
Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

DOMINICA
A Comparison of Environments of Rain Forests in Dominica and Puerto Rico,
W77-10988 1022 2G

DON RIVER (USSR)
Anthropogenic Morphogenesis of the Relief of the Lower Don, (In Russian),
W77-01039 1002 2H

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

DONETS RIVER BASIN CANAL (USSR)
Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

DONETSK (UKRANIAN SSR)
Experience in Treating Waste Waters from the Donetsk Mines, (In Russion),
W77-07068 1014 5D

DOPPLER EFFECTS
Analytical Evaluation of Techniques for Use of a Laser Doppler Velocimeter to Measure Flow and Turbulence,
W77-10784 1021 2E

DOPPLER RADAR
Rain Resulting from Melting Ice Particles,
W77-11597 1023 2B

DORMANCY
Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

DORMANT SEASON
Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

DORR TYPE CLARIFIER
Study on Sewage Flow Dynamics Through Dorr Type Clarifier on Stream, (Synopsis),
W77-07048 1014 5D

DOSE-EFFECTS
Toxicology of Metals - Volume I,
W77-11316 1022 5C

DOUBLE-CRESTED CORMORANTS
Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

DOUBLE SAMPLING THEORY
Total Nitrogen Using a Sodium Hydroxide Index and Double Sampling Theory,
W77-00297 1001 2G

DOUGLAS FIR TREES
Evapotranspiration of a Douglas Fir Determined with a Weighing Lysimeter,
W77-05959 1012 2D

DOVE CREEK (TX)
Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

DOVER SOLE
Temperature Tolerance of Early Development Stages of Dover Sole, Solea Solea (L.),
W77-04549 1009 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

DOVEY ESTUARY (WALES)
The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

DOWNHOLE MOTORS
Drilling Research to Pay Off by 2000,
W77-12668 1024 8C

DOWNHOLE MUD MOTORS
Down-Hole Mud Motor Passes Field Test.
W77-10514 1021 8C

DOWNHOLE PARAMETERS
Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

DOWNWELLING CURRENTS
Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

DRAFT TUBES
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

DRAG
Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

Water Drag on Arctic Sea Ice,
W77-04901 1010 2C

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

DRAG REDUCTION
A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

DRAIN
Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

DRAIN OIL DISPOSAL
Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

DRAINAGE
Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

Economics of Increased Mobility from Tile Drainage,
W77-00313 1001 3F

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

Effect of Agricultural Drainage on Water Quality,
W77-00475 1001 5B

Defining the Sediment Trapping Characteristics of a Vegetative Buffer. Special Case: Road Erosion,
W77-00799 1002 4D

Steinbeck V Philip Stenger Sons, Inc (Alteration of Higher Topography by Land Developer Causing Artificial Drainage onto Lower Property--The Taking Issue).
W77-01049 1002 2E

Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Transient Drainage with Nonlinearity and Capillarity,
W77-01633 1004 2F

Maryland Highway Drainage Study: Volume I - Summary Report,
W77-02490 1005 4C

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Maryland Highway Drainage Study: Volume III - A Linked System Model for the Synthesis of Hydrographs in Urban Areas,
W77-02492 1005 4C

Maryland Highway Drainage Study: Volume VI - An Experimental Examination of the Subsurface Drainage of Roadways,
W77-02493 1005 4C

Drainage of Vertical Columns of Lakeland Sand,
W77-02510 1005 2G

Unsaturated Zone and Vertical-Flow Components in Draining Unconfined Formations,
W77-04000 1008 2F

Comparison of Drainage Equations for the Gravity Drainage of Stratified Profiles,
W77-04248 1009 2G

Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

Link Length Organization and Network Scale Dependencies in the Network Diameter Model,
W77-05161 1011 4A

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

A Study of Glacier-Dammed Lakes Over 75 Years, Brimkjelen, Southern Norway,
W77-05427 1011 2H

Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

Simplified Techniques for Determining Water Conducting and Water Storage Properties of Soils,
W77-05853 1012 2G

Powers Respecting Flood Control.
W77-06072 1012 6E

Modest Techniques.
W77-06237 1013 6G

Démery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Bentley v. Industrial Fire Protection Company (Liability for Increasing Drainage onto Adjoining Property).
W77-06563 1013 6E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Saturated and Unsaturated Flow to Parallel Drains,
W77-07552 1015 4A

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Go Ahead for Drainage and Outfall,
W77-07889 1016 5E

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

Mitchell V. City of High Point (Municipal Liability for Damage from Overflow of Privately-Owned Stream).
W77-08145 1017 6E

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

Network Characteristics in Suburbanizing Streams,
W77-08830 1018 4C

Computer Modeling for the Prediction of Water Quality from Agricultural Drainage,
W77-08934 1018 5B

Water Table Lowering Between Two Drainage Ditches in Naturally Layered Soils on a Slope, (In German),
W77-09448 1019 4A

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

Change of Salinity with Different Distances Between Drains Under Conditions of Northern Mugan, (In Russian),
W77-09630 1020 3C

A Laboratory Model to Investigate the Soil Moisture Conditions on a Draining Slope,
W77-09712 1020 2G

Static Calculation of Drainage Channels and Pipes (Die statische Berechnung von Entwasserungskanalen und-leitungen),
W77-09833 1020 8G

Low Cost Drainage Networks,
W77-10833 1022 4A

Steady State Bi-Level Subsurface Drainage Theory for Soils of Varying Hydraulic Conductivity,
W77-10961 1022 2F

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

Restricted Drainage and Its Effect on Rising Ground Water Table and Soil Salinity,
W77-11627 1023 4B

Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

Vertical Drainage in Field Cores,
W77-12304 1024 2G

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

Water-Table Management,
W77-12580 1024 4A

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

DRAINAGE AREA

State and County Area Tabulations for the Colorado River Basin,
W77-03110 1007 7C

Sediment Yield-Runoff-Drainage Area Relationships in the United States,
W77-04272 1009 2J

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

DRAINAGE BASIN SHAPE

Classification of Nested Tributary Basins in Analysis of Drainage Basin Shape,
W77-04880 1010 2E

DRAINAGE BASINS

Planning for Storm Water Management,
W77-00770 1002 6F

The Groundwater Fauna of the Saale River Drainage Area (Thuringia), (In German),
W77-02913 1006 5C

DRAINAGE DENSITY

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

DRAINAGE DISTRICTS

Drainage Districts; Powers.
W77-01006 1002 6E

The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

Drainage Districts with Counties or Cities (Powers).
W77-06060 1012 6E

United States V 3,727-91 Acres of Land in Pike County, State of Missouri (Compensation Allowed Drainage District for Condemned Property).
W77-08399 1017 6E

Water Control Districts.
W77-11198 1022 6E

DRAINAGE DITCHES

Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

DRAINAGE EFFECTS

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

Desalination of Soils of Menofeya Governorate Put Under Tile Drainage,
W77-04322 1009 2G

Nuckolls V Louisiana State Highway Department (Liability for Unauthorized Alteration of Natural Drain),
W77-07277 1015 6E

Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

Ingram V City of Redondo Beach (Inverse Condemnation Suit Resulting in Damages for Flooding).
W77-10489 1021 6E

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

Restricted Drainage and Its Effect on Rising Ground Water Table and Soil Salinity,
W77-11627 1023 4B

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

Minimizing the Salt Burden of Pecos River Irrigation Drainage Water,
W77-12754 1024 5G

DRAINAGE ENGINEERING

Economics of Increased Mobility from Tile Drainage,
W77-00313 1001 3F

DRAINAGE PATTERNS (GEOLOGIC)

Source and Tributary-Source Link Lengths in Natural Channel Networks,
W77-00084 1001 8B

Classification of Nested Tributary Basins in Analysis of Drainage Basin Shape,
W77-04880 1010 2E

Link Length Organization and Network Scale Dependencies in the Network Diameter Model,
W77-05161 1011 4A

Variation of Link Magnitude with Map Scale,
W77-05338 1011 7C

DRAINAGE POROSITY

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

DRAINAGE PRACTICES

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Tile Drainage in Bedded Soil or a Draw,
W77-05181 1011 4A

Field Evaluation of 102-mm (4-inch) Corrugated Polyethylene Tubing,
W77-10172 1021 8G

Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

Drainage Practice in Imperial Valley, California,
W77-12581 1024 4A

Drainage Progress and Problems on the Columbia Basin Project,
W77-12618 1024 8A

DRAINAGE PROGRAMS

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

DRAINAGE SYSTEM

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

DRAINAGE SYSTEMS

Sludge Drying Beds are Practical, Part 1,
W77-00039 1001 5D

Tunnelling Machine Used for Drain Tunnel for Roundhill Sewage Treatment Works Breaks Record.
W77-00069 1001 8C

Economics of Increased Mobility from Tile Drainage,
W77-00313 1001 3F

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

Dize Awning and Tent Co V Winston-Salem (Right to Increase Rate of Flow from Creek Watershed Under Easement of Servitude).
W77-00994 1002 6E

A Sanitary Engineer's Viewpoint on the Design, Installation, Maintenance and Cost of Sanitary Drainage Systems in High-Rise Buildings,
W77-01388 1003 8A

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
W77-01485 1003 4A

Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Plastic Lining Overcomes Rugged Terrain,
W77-02333 1005 8G

Economic and Environmental Impacts of Agricultural Land Drainage in Ontario,
W77-02425 1005 4A

Kravec V State (Interior Land Owners' Right to Bridge State's Drainage Ditch Easement).
W77-03718 1008 6E

Levees, Drains and Ditches,
W77-03727 1008 6E

Desalination of Soils of Menofeya Governorate Put Under Tile Drainage,
W77-04322 1009 2G

Stormwater Management Looks to Natural Drainage.
W77-04653 1010 4A

Stormwater Tunnel Cuts Drainage Costs.
W77-04654 1010 5D

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

McNamara V. Westview Building Corporation (Land Owner's Rights Against Drainage from Abutting Property).
W77-06080 1012 6E

London's Stormwater Problem,
W77-06297 1013 5B

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

London's Stormwater Problem,
W77-06983 1014 5D

Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

Treating Urban Drainage as a Utility,
W77-07947 1016 5G

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

Location of Major Deltas,
W77-09133 1019 2L

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

Divide Cut Drainage Structures Tennessee-Tombigbee Waterway Mississippi and Alabama; Hydraulic Model Investigation,
W77-10046 1020 8B

A Sanitary Engineer's Viewpoint on Tall Buildings,
W77-10213 1021 8A

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Program Hopes to Reduce Pollution from Sewer Overflow.
W77-10547 1021 5B

Stabilization of Potentially Liquefiable Sand Deposits Using Gravel Drains,
W77-10777 1021 8D

On Determining Distances Through Stream Networks,
W77-11225 1022 4A

Roof Drainage of Large Buildings in South Africa,
W77-11555 1023 3B

Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

Effects of Irrigation Scheduling and Coordinated Delivery on Irrigation and Drainage Systems,
W77-12504 1024 3F

Operation and Maintenance of Irrigation and Drainage Systems: Section IV.----Maintenance.
W77-12712 1024 3F

DRAINAGE WAER

Desalination of Soils of Menofeya Governorate Put Under Tile Drainage,
W77-04322 1009 2G

DRAINAGE WATER

Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

Kravec V State (Interior Land Owners' Right to Bridge State's Drainage Ditch Easement).
W77-03718 1008 6E

McNamara V. Westview Building Corporation (Land Owner's Rights Against Drainage from Abutting Property).
W77-06080 1012 6E

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

Effect of Leaching Fraction on River Salinity,
W77-09697 1020 5G

Reclamation of Irrigation Field Drainage Water,
W77-11113 1022 5D

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Composition of Saline Drainage Water in Iraq and its Use,
W77-12740 1024 3C

Fate of Salts from Water and Manure in a 4-Year Field Experiment,
W77-12755 1024 5G

DRAINAGEWAY EROSION

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

DRAINING SLOPES

A Laboratory Model to Investigate the Soil Moisture Conditions on a Draining Slope,
W77-09712 1020 2G

DRAINS

Economics of Increased Mobility from Tile Drainage,
W77-00313 1001 3F

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

Transient Drainage with Nonlinearity and Capillarity,
W77-01633 1004 2F

Saturated and Unsaturated Flow to Parallel Drains,
W77-07552 1015 4A

Change of Salinity with Different Distances Between Drains Under Conditions of Northern Mugan, (In Russian),
W77-09630 1020 3C

Drain Spacing Based on Dynamic Equilibrium,
W77-09698 1020 2F

Effect of Openings on Inflow into Corrugated Drains,
W77-12305 1024 8B

Operation and Maintenance of Irrigation and Drainage Systems: Section IV.----Maintenance.
W77-12712 1024 3F

The Hydraulic Resistance of Subsurface Drains as Influenced by Certain Filter Materials,
W77-12835 1024 4A

DRAKE PASSAGE

A Comparison of Summer Current Measurements in the Drake Passage,
W77-12301 1024 2L

DRAKENSBERG

Grassing Roads and Eroded Areas in the Drakensberg,
W77-10075 1020 4D

DRAWDOWN

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

Model Analysis of Effects on Water Levels at Indiana Dunes National Lakeshore Caused by Construction Dewatering,
W77-00863 1002 4B

Ground Water Flow in Unconsolidated Formations,
W77-01763 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01929 1004 4B

A Drawdown Prediction Model Based on Regression Analysis,
W77-02015 1004 4B

Digital-Simulation Model of the Wenonah-Mount Laurel Aquifer in the Coastal Plain of New Jersey,
W77-02975 1006 2F

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

Analytic Solutions for Drawdowns in Rectangular Artesian Aquifers,
W77-03854 1008 4B

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Numerical Pumping Test Analysis in Unconfined Aquifers,
W77-05805 1012 2F

Hydraulics and Economics of Well Field Layout.
W77-06863 1014 8B

DRAWDOWN

Digital-Computer Model of the Sandstone Aquifer in Southeastern Wisconsin,
W77-08478 1017 2F

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

Lake Drawdown as a Method of Improving Water Quality,
W77-09516 1019 5G

New Instrument Expands Water Well Technology,
W77-10521 1021 8G

Pumping Tests Provide Useful Data, Part II,
W77-10530 1021 8B

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Theoretical Drawdown Due to Simulated Pumpage from the Ohio River Alluvial Aquifer Near Siloam, Kentucky,
W77-12379 1024 4B

Composite Well Systems,
W77-12678 1024 8B

Pumping Tests Provide Useful Data: Part 3,
W77-12683 1024 8G

DREDGE SPOIL

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

DREDGE SPOILS

Animal Colonization of Man-Initiated Salt Marshes on Dredge Spoil,
W77-10035 1020 2L

DREDGED AREAS

Mathematical Model for Predicting the Consolidation of Dredged Material in Confined Disposal Areas,
W77-00167 1001 5B

DREDGED MATERIAL

Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

Fourth Semiannual Interagency Briefing, February 1975, Washington, D.C.,
W77-02158 1005 8G

Beach Nourishment Techniques; Report 1, Dredging Systems for Beach Nourishment from Offshore Sources,
W77-02965 1006 2J

Dredged Material as a Natural Resource,
W77-10962 1022 5E

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

DREDGED MATERIAL DISPOSAL

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

DREDGES

Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

Dredged Material as a Natural Resource,
W77-10962 1022 5E

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

DREDGING

Mathematical Model for Predicting the Consolidation of Dredged Material in Confined Disposal Areas,
W77-00167 1001 5B

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Fourth Semiannual Interagency Briefing, February 1975, Washington, D.C.,
W77-02158 1005 8G

Techniques for Reducing Turbidity Associated with Present Dredging Procedures and Operations,
W77-02936 1006 5G

Beach Nourishment Techniques; Report 1, Dredging Systems for Beach Nourishment from Offshore Sources,
W77-02965 1006 2J

Impacts of the Deposition of Dredged Spoils on Lake Erie Sediment Quality and Associated Biota,
W77-03094 1007 5C

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

Jurisdiction and Grounds for Denial by State and Federal Agencies of Dredge and Fill Operations,
W77-04923 1010 5G

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Time-Dependent Development of Strength in Dredgings,
W77-05966 1012 5G

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

History of Dredging and Filling of Lagoons in the San Juan Area, Puerto Rico,
W77-06346 1013 5B

Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

The Effects of Dredging on Water Quality in the Northwest,
W77-06535 1013 5G

Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

Amdel Pipeline Inc V State of Texas (Statutory Requirement of Payment for Spoil Dredged

from Bottom of Approaches to Corporate Loading Docks).
W77-07271 1015 6E

Proceedings of the Seventh Dredging Seminar.
W77-07342 1015 8D

Use of Aerial Remote Sensors to Monitor Dredging Projects,
W77-07344 1015 8D

Dredged Material Disposal Effects and Alternatives,
W77-07345 1015 8D

Parameter Study of Variables Affecting the Performance of a Hydraulic Pipeline Dredge Model,
W77-07346 1015 8D

Maintenance Dredging in the New Orleans District, US Army Corps of Engineers,
W77-07347 1015 8D

The Port of New Orleans and Its Dredging Program,
W77-07348 1015 8D

Compressibility and Strength of Compacted Dredgings,
W77-07350 1015 8D

Permeability and Drainage Characteristics of Dredgings,
W77-07351 1015 8D

Concepts for the Reclamation of Dredged Material,
W77-07352 1015 8D

The Responses of Some Estuarine Organisms to Suspended Solids,
W77-07353 1015 8D

Belford V. City of New Haven (Individual's Challenge to City's Dredging and Construction),
W77-08143 1017 6E

Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

Analyses of Native Water, Bed Material, and Elutriate Samples of Major Louisiana Water Waterways, 1975,
W77-09084 1018 5A

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

Automated Hydrography for Channel Dredging,
W77-10316 1021 8B

Dredge River Channel: Naval Submarine Base, New London, Groton, Connecticut (Final Supplement to Final Environmental Impact Statement).
W77-10454 1021 6G

Colonization of Imperiled Plants in Dredged Lakes of the Upper Rhine Plain, (In German),
W77-10730 1021 2H

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Ct. First Year's Studies July 1974 - July 1975.
W77-10906 1022 6G

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Dredged Material as a Natural Resource,
W77-10962 1022 5E

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Corps Games in Mid-America,
W77-11473 1022 6E

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11525 1023 5C

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut: 6th Quarterly Report.
W77-11899 1023 5C

A Study on the Effects of Maintenance Dredging on Selected Ecological Parameters in Gulfport Harbor, Mississippi.
W77-11901 1023 5C

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

DRIFT BEAM

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

DRIFT VELOCITIES

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Ocean Surface Drift Velocities,
W77-11810 1023 2L

DRIFTERS

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

DRIFTING (AQUATIC)

Seasonal Variation of Residual Drift in Long Island Sound,
W77-03322 1007 2L

Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

DRILL BIT

The Cable Tool Bit,
W77-01767 1004 8G

DRILL BITS

Diamond Composites Used in New Bits.
W77-08651 1018 8G

DRILL COLLARS

How to Drill a Usable Hole, Part 3, Selecting the Drill Collar String,
W77-01768 1004 8G

DRILL HOLES

Resurvey of the 'Byrd' Station, Antarctica, Drill Hole,
W77-08227 1017 2C

Heat Transfer Characteristics of Melting and Refreezing a Drill Hole Through an Ice Shelf in Antarctica,
W77-10655 1021 2C

DRILL KELLYS

Kelly Care Extends Service Life
W77-08311 1017 8C

DRILL MONITORS

Downhole Measurements Through Modified Drill Pipe,
W77-07304 1015 8G

DRILL PIPES

Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

Downhole Measurements Through Modified Drill Pipe,
W77-07304 1015 8G

DRILL STRING MAKEUP

Drill String Makeup, Past, Present, Future,
W77-08648 1018 8C

DRILLERS LOGS
Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

DRILLING
The Selling of the Shelf,
W77-00979 1002 5G

How to Drill a Usable Hole, Part 3, Selecting the Drill Collar String,
W77-01768 1004 8G

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Improved Drilling is a Result of Sound Engineering,
W77-04121 1009 8G

Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

The Cable Tool Drilling Machine, Part III,
W77-07286 1015 8C

The Cable Tool Drilling Machine, Part IV,
W77-07287 1015 8C

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

E.L.C. Water Development Project, Betul (M.P.) India: Fifth Annual Report, 1975-1976,
W77-07696 1016 8B

Methods Used for Drilling Wells in the Soviet Union,
W77-08659 1018 8C

Geothermal Energy Development,
W77-08661 1018 4B

Specialty Cements Can Solve Special Problems,
W77-08664 1018 8F

Disposal of Salt Water During Well Construction, Problems and Solutions,
W77-10519 1021 5G

How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

Two-Dimensional Searches for High-Yield Well Sites,
W77-10967 1022 8B

Drilling Research to Pay Off by 2000,
W77-12668 1024 8C

Ingenuity Sparks Drilling History,
W77-12669 1024 8G

DRILLING EQUIPMENT
New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

The Cable Tool Bit,
W77-01767 1004 8G

How to Drill a Usable Hole, Part 3, Selecting the Drill Collar String,
W77-01768 1004 8G

The Dream Spudder,
W77-04116 1009 8B

Lubricating Wire Rope.
W77-04129 1009 8G

Field Application of Externally Stress-Relieved Drill Collars,
W77-04130 1009 8G

Collars with er Grooves Had Fewer Connection Failures,
W77-04285 1009 8G

Sparkle Plenty,
W77-04287 1009 8G

Bailing,
W77-04288 1009 8C

Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

Make Wire Rope Last-Treat it Like a Machine,
W77-06857 1014 8G

One Good Idea Spurs Another.
W77-06860 1014 8C

The Cable Tool Drilling Machine, Part III,
W77-07286 1015 8C

The Cable Tool Drilling Machine, Part IV,
W77-07287 1015 8C

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

New Rig Concept Uses Continuous Drill String.
W77-07298 1015 8G

Kelly Care Extends Service Life,
W77-08311 1017 8C

Better Protection for Casing and Tool Joints,
W77-08315 1017 8G

Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

Recent Advances in Rotary Drill Bits,
W77-08649 1018 8G

Diamond Composites Used in New Bits.
W77-08651 1018 8G

Methods Used for Drilling Wells in the Soviet Union,
W77-08659 1018 8C

Rock Type Decides Jetting Economics,
W77-08666 1018 8C

Tests Show Jet-Drilling Hard Rock Potential,
W77-08667 1018 8E

Air, Mist and Foam Drilling, A Look at Latest Techniques,
W77-08669 1018 8C

Down-Hole Mud Motor Passes Field Test.
W77-10514 1021 8C

How to Improve Drilling Economics by Using a Shock Absorber,
W77-10526 1021 8G

Cementing Oil and Gas Wells, Part 5,
W77-10529 1021 8F

Drilling Research to Pay Off by 2000,
W77-12668 1024 8C

Ingenuity Sparks Drilling History,
W77-12669 1024 8G

Metallurgical Developments Aid Bits, Tool Joints,
W77-12670 1024 8G

New Technology: New Eccentric Drill Bit.
W77-12677 1024 8G

DRILLING FLUIDS
Drilling Mud Invasion of Unconsolidated Aquifer Materials,
W77-00438 1001 8B

Slurry and Pumping Guidelines Smooth Casing-Cementing Jobs,
W77-07699 1016 8F

Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

Cementing Oil and Gas Wells, Part 3,
W77-08328 1017 8F

Cement-Mud Spacer System Improves Illinois Wells,
W77-08647 1018 8F

Selection of Slurry Pumps for Severe Applications,
W77-08673 1018 8C

Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

Cementing Oil and Gas Wells, Part 4,
W77-10528 1021 8F

Effects of Drilling Mud on Rock Bit Performance,
W77-12672 1024 8G

DRILLING MONITORS
Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

DRILLING PIPE CLAMPS
One Good Idea Spurs Another.
W77-06860 1014 8C

DRILLING PROGRAM
Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

DRILLING SAMPLES
Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

DRINKING WATER STANDARDS
Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

DRIP IRRIGATION
Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

Drip Irrigation Device,
W77-01213 1003 3F

Discharge Characteristics of Spaced Slits in Polyethelene Pipes Under Pulsating Pressure Conditions,
W77-01443 1003 3F

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Drip or Trickle Emitter for Use in Drip or Trickle Irrigation,
W77-01756 1004 3F

Drip Irrigation Filtration Problems and Research,
W77-02090 1005 3F

Drip Irrigation Progress and Problems,
W77-02091 1005 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Irrigation Pipes with Dripper Units and Method of its Manufacture,
W77-03871 1008 3F

Drip Irrigation an Efficient Technique,
W77-04321 1009 3F

Trickle Irrigation Design,
W77-05311 1011 3F

Phosphorus Fertilization with Drip Irrigation,
W77-09443 1019 3F

Drip Irrigation with Saline Water and the Leaching of Soil by Means of Drip Irrigation,
W77-11062 1022 3C

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

Drip/Trickle Irrigation Generating Growth, Optimism,
W77-12521 1024 3F

One Drop at a Time,
W77-12525 1024 3F

New Row Crop Drip Irrigation Use,
W77-12529 1024 3F

Salinity Management with Drip Irrigation,
W77-12530 1024 3C

Drip System Applies Phosphorus.
W77-12536 1024 3F

Food Production Potential from Home Gardens,
W77-12623 1024 3F

Drip Irrigation - Worldwide 1975 Present Status and Outlook for Drip Irrigation,
W77-12629 1024 3F

DROGUES

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

DROP BOX INLETS

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

DROP SPECTRA

A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

DROPLETS

A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence: Part II. Charged Drop Seeding,
W77-11828 1023 2B

DROPS (FLUIDS)

The Freezing Behaviour of Supercooled Water Drops,
W77-09118 1019 2C

Cloud Condensation Nucleus Size Distributions and Their Effects on Cloud Droplet Size Distributions,
W77-10125 1021 2B

Effects of Fog Droplets on Wake Vortex Decay Rate,
W77-12823 1024 2B

DROPS (STRUCTURES)

Hydraulic Jumps and Waves at Abrupt Drops,
W77-07163 1015 8B

DROUGHT RESISTANCE

Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

Isolation and Characterization of Drought Tolerance in a Grain Sorghum (Sorghum Bicolor (L) Moench) Randommating Population,
W77-03623 1008 2I

Drought Resistance of Larch Species Introduced to the Central Forest-Steppe Region, (In Russian),
W77-05098 1010 4A

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

Some Significant Regularities in Plant Hydroadaptation, (In Russian),
W77-06774 1014 3B

Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

Evaluation of Wheat Plants with Regard to Drought- and Heat-Resistance Under Field Conditions, (In Russian),
W77-08877 1018 3F

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Secondary Autumn Shoot Formation in Spring Wheat: I. The Role of Drought Damage and Developmental Stages, (In Russian),
W77-09545 1019 2I

Water Relations of Lettuce: I. Internal Physical Aspects for Two Cultivars,
W77-12844 1024 2I

DROUGHT RESISTANCE SEEDS

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

DROUGHT TOLERANCE

Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Effect of Dehydration and Elevated Temperature on Leaf Cell Thermoresistance of a Drought-Sensitive Barley Cultivar, (In Russian),
W77-00503 1001 2I

Water Balance of Stipa Pennata Spp. Eriocaulis, Stipa Capillata and Festuca Vallesiace in the Steppe Region of the Upper Vinschagau, (In Germany9,
W77-00505 1001 2D

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

Isolation and Characterization of Drought Tolerance in a Grain Sorghum (Sorghum Bicolor (L) Moench) Randommating Population,
W77-03623 1008 2I

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Drought Effect on the Optical Properties of Winter Wheat Leaves, (In Ukranian),
W77-04916 1010 2I

Some Significant Regularities in Plant Hydroadaptation, (In Russian),
W77-06774 1014 3B

Evaluation of Wheat Plants with Regard to Drought- and Heat-Resistance Under Field Conditions, (In Russian),
W77-08877 1018 3F

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

Effects of Irrigation History on Responses of Cotton to Subsequent Water Stress,
W77-11430 1022 3F

The State of Natural and Introduced Trees and Shrubs After a Prolonged Drought in the Bayala Slatina Area, (In Bulgarian),
W77-12627 1024 4A

Water Relations of Lettuce: I. Internal Physical Aspects for Two Cultivars,
W77-12844 1024 2I

DROUGHTS

Dynamical Abnormalities Associated with Drought in the Asiatic Summer Monsoon,
W77-01128 1003 2B

The Study of Droughts by Water Budget Method over Andhra Pradesh,
W77-01130 1003 2B

Providing for Provident Dogons,
W77-01896 1004 3B

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Wet and Dry Periods of Annual Flow Series,
W77-03319 1007 2E

Yield Responses of Two Maize Cultivars Following Short Periods of Water Stress at Tasseling,
W77-03628 1008 3F

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

The Pastoral Zone--Reprieved,
W77-06231 1013 2B

Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

Dynamics of Climatic Hazards in Northeast Brazil,
W77-07167 1015 2B

Life At The Desert's Edge.
W77-09305 1019 4C

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

Floods and Droughts,
W77-10788 1021 2E

A History and Interpretation of the Water Treaty of 1944,
W77-11174 1022 6E

Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

Connections Between Climate and Desertification,
W77-11629 1023 2B

African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

Weekly Water Balances of Normal and Severe Drought Years at Dharwar,
W77-12332 1024 2B

Areal Extent of Southwest Monsoon Droughts in India,
W77-12555 1024 2B

DRUMS

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

DRY AGGREGATE STRENGTH

Strength of Soil Aggregates: Influence of Size, Density and Clay and Organic Matter Content,
W77-08707 1018 2G

DRY BEDS

Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

DRY COOLING

Escom Pioneers Dry Cooling,
W77-01467 1003 3E

The Cooling Water Equation,
W77-01468 1003 6D

DRY DEPOSITION

Dry Deposition Loading of Lake Michigan by Airborne Particularate Matter,
W77-10758 1021 5A

DRY FARMING

New Soil Implement Makes a Good Impression,
W77-11096 1022 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

Yield and Moisture Use Pattern of Rabi Crops Grown Under Rainfed Conditions of Eastern U.P.,
W77-11992 1023 3F

DRY-MATTER YIELD

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

DRY SOILS

Heat and Vapor Movement During Infiltration into Dry Soils,
W77-11818 1023 2G

DRY SPELLS

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

DRYERS (SLUDGE)

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

DRYING

Processing, Economics and Sale of Heat Dried Sludge,
W77-00037 1001 5D

Influence of Hysteresis on Moisture Flow in an Undisturbed Soil Monolith,
W77-01323 1003 2G

Combined Filter and Dryer for Sewage Sludge Etc. - Uses Band of Vacuum Filter to Carry Cake Through Filter Press.
W77-02341 1005 5D

Pressing Characteristics of Waterhyacinth,
W77-02527 1005 2I

Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

Causes of the Drying up of Forests in the Flood Plain of the Lower Reaches of the Ural River, (In Russian),
W77-06801 1014 4D

Drying Potato Wastes for Animal Feed as an Alternative Disposal Method.
W77-06947 1014 5D

Filters and Sludge Drying Beds,
W77-08586 1017 5D

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

Influence of Row Spacing and Straw Mulch on First Stage Drying,
W77-10286 1021 2D

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

Brisbane Council's First in Australia at Sewerage Treatment Plant.
W77-11719 1023 5D

Thermal Drying of Sludge,
W77-11743 1023 5E

Release of Soil Potassium on Wetting and Drying,
W77-11982 1023 2G

Soil Water Movement During the First Stage of Drying of a Moist, Sandy Soil Under a Very Low Drying Rate,
W77-12314 1024 2G

More Disposal Operations Mixing Sewage Sludge and Municipal Solid Wastes,
W77-12418 1024 5E

Co-Disposal for Solid Wastes and Sewage Sludge,
W77-12426 1024 5E

Evaporation of Treated Waste Water,
W77-12945 1024 5D

Process and Apparatus for the Treatment of Water-Containing Substances and Application of this Method for the Preparation of Pasteurized Dried Sludge,
W77-12946 1024 5D

DRYING BEDS
Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

DRYRENE
Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

DUAL MEDIA FILTERS
Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

DUAL SYSTEM
Dual Water Systems -- Design,
W77-12402 1024 5D

DUAL WATER SUPPLY SYSTEMS
Get Ready for Dual Water Systems,
W77-08645 1018 5G

The Use of Polluted Sources for Water Supply,
W77-11858 1023 5F

DUBOSSARY RESERVOIR (USSR)
Character of Interrelations Between Chironomidae and Their Parasites, Mermithidae, (In Russian),
W77-01596 1004 5C

DUCK CREEK (IA)
Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

DUCK EGGS
The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

DUCK RIVER BASIN (TENN)
On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

DUCKS
Pilot Investigation of the Importance of Various Wetland Types to Duck Production,
W77-00145 1001 2H

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

DUCKS (WILD)
Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

DUCKWEED
Certain Characteristic Features of Flowering and Pollination in Duckweeds (Lemnaceae S. Gray),
W77-01778 1004 4A

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

DUCTILE IRON PIPE
Ductile Iron Pipe Solves a Tough Sewer Problem at Jimerson Creek,
W77-03398 1007 8G

DUCTILE IRON PIPES
Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

DUG WELLS
Determination of Dug Well Debit Under Conditions of Desert Pasture Lands, (In Russian),
W77-09310 1019 4B

DUKE SWAMP (NC)
Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

DULUTH-SUPERIOR AREA (MINN-WISC)
Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

DULUTH-SUPERIOR HARBOR (MINN)
Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

DUMPING AT SEA ACT 1974 (UK)
The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

DUMPSITES
May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

DUNALIELLA
Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

DUNE SANDS
Stabilization of Sand Dunes in the West Sahara,
W77-10074 1020 4A

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

DUNE STABILIZATION
The Dune Book. How to Plant Grasses for Dune Stabilization,
W77-07326 1015 2J

Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Dune Stabilization with Panicum Amarum Along the North Carolina Coast,
W77-08908 1018 2L

DUNE SUCCESSION
Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

DUNES
Engineering Study and Field Demonstration Trials for Sand Dune Stabilization,
W77-00032 1001 5E

Tri-State Conference Report: Methods for Beach and Sand Dune Protection,
W77-00193 1001 4D

Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

Coastal Sand Dunes,
W77-05405 1011 2L

The Dune Book. How to Plant Grasses for Dune Stabilization,
W77-07326 1015 2J

Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Dune Stabilization with Panicum Amarum Along the North Carolina Coast,
W77-08908 1018 2L

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

DUNGENESS CRAB
Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

DUNGENESS CRAB (CANCER MAGISTER)
Relationships of Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (Cancer Magister),
W77-04040 1008 5C

DUPLIN RIVER (GA)
Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

DUPUIT-FORCHHEIMER THEORY
Dupuit-Forchheimer and Potential Theories for Recharge from Basins,
W77-06004 1012 2F

DUST
Aerosol in the GATE Area and Its Radiative Properties,
W77-05131 1011 2K

DUST STORMS
Dust Storms,
W77-01895 1004 2B

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

DUSTS
Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

DUVAL COUNTY (FLA)
Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

DUWAMISH BASIN (WASH)
A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

DUWAMISH RIVER ESTUARY (WASH)
Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

DWORSHAK DAM (IDAHO)
Polymerization of Concrete Fights Cavitation,
W77-09044 1018 8F

A Mathematical Model for Simulating the Temperature Structure of Stratified Reservoirs and Its Use in Reservoir Outlet Design,
W77-12114 1023 5B

DYE CONCENTRATIONS
Probability Distribution of Concentrations Measured in the Wake of a Continuous Point Source in Coastal Currents,
W77-01927 1004 2H

DYE DISPERSION
Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

Circulation and Temperature Structure in Large Marine Enclosures,
W77-11816 1023 2L

DYE RELEASES
Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

Dispersion Measurement on the Danube,
W77-09040 1018 5B

DYERSVILLE (IA)
North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

DYES
Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Large-Scale Effluent Treatment in the Dyestuffs Industry.
W77-00758 1002 5D

Reclaiming Water,
W77-00759 1002 5D

A Laboratory Evaluation of a Dye for the Control of Alagal Growth,
W77-01355 1003 5G

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

In-Plant, Outside Pollution Evils, Energy Saving Top AATCC Concerns.
W77-03620 1008 5G

Effect of Dyes Used in the Textile Industry on the Purification of Effluents by the Activated Sludge Process (Wplyw niektorych barwnikow stosowanych w przemysle wlokienniczym na oczyszczanie sziekow osadem czynnym),
W77-03821 1008 5D

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

The Removal of Acid Dye from Effluent Using Natural Absorbents-II,
W77-06228 1013 5D

IWS Low Chrome Effluent Dyeing,
W77-06229 1013 5D

Investigation of Flushing Time in the Lafayette River, Norfolk, Virginia,
W77-06881 1014 2L

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-08278 1017 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-09745 1020 5D

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Destruction of Coliforms in Water and Sewage Water by Dye-Sensitized Photooxidation,
W77-10618 1021 5D

DYNAMIC BIOASSAY
Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

DYNAMIC PROGRAMMING
Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Optimal Exploitation of Multiple Stocks by a Common Fishery: A New Methodology,
W77-00920 1002 6A

Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

Multilevel Incremental Dynamic Programing,
W77-03937 1008 6A

Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

Least Cost Control Strategies in Urban Drainage Design -- A Dynamic Programming Approach,
W77-04007 1008 4A

Optimal Design of Multilevel Branching Sewer Systems,
W77-05192 1011 5D

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

Discrete Representation of Storage for Stochastic Reservoir Optimization,
W77-05921 1012 4A

Advanced Methodologies for Design of Storm Sewer Systems,
W77-05927 1012 5D

The Conjunctive Use of a Multi-Reservoir System and a Dual-Purpose Desalting Plant,
W77-06714 1014 4B

Optimization of a Three-Reservoir System by Dynamic Programming,
W77-06720 1014 4A

Optimal Seasonal and Short-Term Operation of a Reservoir Used for Flood Control and Water Supply,
W77-06724 1014 4A

Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

The Methods of Distribution of Water Resources in River Development Systems,
W77-06726 1014 4A

Reliability-Constrained Dynamic Programing and Randomized Release Rules in Reservoir Management,
W77-07535 1015 4A

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Environmental Management and Regional Economic Development,
W77-12583 1024 5G

DYNAMIC STREAMFLOW

Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

DYNAMICS

Evaluation of In Situ Shear Wave Velocity Measurement Techniques,
W77-00737 1002 8D

Study on Sewage Flow Dynamics Through Dorr Type Clarifier on Stream, (Synopsis),
W77-07048 1014 5D

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

DYSTROPHY

Temporal Variations in the Phosphorus Content of a Northern Dystrophic Lake,
W77-02824 1006 5C

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

E. COLI

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

Isolated Strains of Escherichia Coli from the Water Supply and Residual Waters of Large Hog Farms, (In French),
W77-01589 1004 5A

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Fecal Coliform Analysis: Effects of Elevated Temperatures on Quantitative Recovery,
W77-02182 1005 5A

Mercury and Mercurial Resistance Determined by Plasmids in Escherichia Coli and Pseudomonas Aeruginosa,
W77-03667 1008 5C

Bactericidal Action of Electrohydraulic Effect in Water, (In Russian),
W77-04088 1008 5C

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

Determination of a Zone of Sanitary Protection of Surface Sources of a Centralized Water Supply, (In Russian),
W77-05203 1011 5G

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

Case of a Polluted Water Pipeline, (In Russian),
W77-05687 1012 5B

Escherichia Coli as a Sanitary-Indicator Microorganism, (In Russian),
W77-07067 1014 5A

Data 1973/1974 Regarding Hydrography and Water Quality in the Weser Estuary, Germany, (In German),
W77-07584 1015 5C

Concentration of Bacteria in Water Using the Ultrafiltration Method, (In French),
W77-07860 1016 5D

Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

Destruction of Coliforms in Water and Sewage Water by Dye-Sensitized Photooxidation,
W77-10618 1021 5D

Two-Temperature Membrane Filter Method for Enumerating Fecal Coliform Bacteria from Chlorinated Effluents,
W77-11728 1023 5A

Occurrence of Escherichia Coli B Bacteriophages in Municipal Wastewater and Their Removal and Inactivation by Activated Sludge Sewage Treatment,
W77-12140 1023 5A

EAGLE LAKE (MINN)

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

EAGLE RIVER BASIN (COLO)

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

EAGLE RIVER VALLEY

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

EARLY WARNING SYSTEMS

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

EARTH DAMS

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

EARTH DAMS

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

Seepage from Small Earth Dams,
W77-05534 1011 8D

Seepage from Small Earth Dams,
W77-09932 1020 8D

Preliminary Study; The Influence of Construction Step Sequence and Nonlinear Material Behavior on Cracking of Earth and Rock-Fill Dams,
W77-11240 1022 8D

Teton Dam Failure.
W77-12324 1024 8D

The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

EARTH MATERIALS

Seepage from Small Earth Dams,
W77-05534 1011 8D

EARTH-WATER INTERFACES

Federal and State Controls Over Land/Water Development in Navigable and Non-Navigable Waters,
W77-10470 1021 6E

Interfacial Reactions and the Fate of Heavy Metals in Soil-Water Systems,
W77-11524 1023 5B

EARTHQUAKE ENGINEERING

Optimization of Water Resource Systems Incorporating Earthquake Risk,
W77-02831 1006 6A

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

EARTHQUAKES

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

Earthquake-Related Change of the Hydrogen Ion Concentration (pH) in Ground Waters,
W77-03990 1008 2K

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 4: Hazards; Data Management.
W77-12966 1024 6G

EASEMENTS

Gardner V Hamilton (Right to Exercise Eminent Domain for Flood Control).
W77-00996 1002 6E

Kravec V State (Interior Land Owners' Right to Bridge State's Drainage Ditch Easement).
W77-03718 1008 6E

Nature Conservancy V Machipongo Club, Inc. (Effects of Accretion on Easement).
W77-06059 1012 6E

Austin v Bedford, Iowa, (Conflict in Conveyance Rights and Use of Dirt Fill).
W77-06070 1012 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

Public Access to Receding Beaches,
W77-10462 1021 6E

Alabama Power Company v Martin (Power Company Estopped from Asserting Flood Easement Rights).
W77-11184 1022 6E

EAST BRANCH KISHWAUKEE RIVER (IL)

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

EAST CHINA SEA

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

EAST FORK RIVER (WYO)

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

EAST FORK TRINITY RIVER (TEX)

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

EAST GERMANY

Remarks on the Short Term Variability of the Parameters Relating to the Nutrient and Oxygen Balance During the Synoptic Investigation of Shallow Inlets During 1972, (In German),
W77-05159 1011 5A

Water Management Aspects of the Agricultural Utilization of Liquid Manure and Preliminary Expenditure Standards, (In German),
W77-09391 1019 5G

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Applied Principles of Catchment Simulation,
W77-12106 1023 2A

EAST RIVER (NY)

The Tides of the East River, New York,
W77-01617 1004 2L

EAST TWIN LAKE (OHIO)

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

EASTERN MONTANA GROUNDWATER

Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

EASTERN NORTH AMERICA

Bicarbonate Content of Groundwater in Carbonate Rock in Eastern North America,
W77-02020 1004 2K

EASTERN OYSTER

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

EASTERN U.S.

Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

EASTERN U.S. COASTS

The Annual Cycle of Wave Climates Along the East Coast of the United States,
W77-04482 1009 2L

EASTERN WHITE PINE

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

ECDYONURUS-VENOSUS

The Drift and its Ecological Significance: Experimental Investigation on Ecdyonurus Venosus (Fabr.) in a Stream Model, (In German),
W77-04865 1010 5B

ECHINODERMS

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

ECHO SOUNDING
Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

ECOLOGICAL DETERMINANTS
Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

ECOLOGICAL DISTRIBUTION
Geographical and Seasonal Variability of Marine Plankton.
W77-00393 1001 5C

Species Composition and Distribution of Ecological Complexes of Zooplankton in the Enisei Gulf,
W77-00399 1001 5C

Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

A Preliminary Report on the Benthic Macroinvertebrates of Lake Superior,
W77-01801 1004 5C

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Ecological Significance of Water Turbidity Exemplified by Ponds of the North Caucasus, (In Russian),
W77-04861 1010 5B

The Drift and its Ecological Significance: Experimental Investigation on Ecdyonurus Venosus (Fabr.) in a Stream Model, (In German),
W77-04865 1010 5B

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

Expansion of the Range of Some Fish Species in Connection with Hydraulic Engineering Construction on the Volga and Acclimatization Works, (In Russian),
W77-08715 1018 8I

A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

The Importance of Monitoring Change,
W77-09591 1019 5A

Observations of an Ash Lagoon Spill on the New River, Virginia,
W77-12219 1023 5B

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 1: Receptors (Biota): Marine Mammals; Marine Birds; Microbiology.
W77-12964 1024 6G

ECOLOGICAL EFFECTS
The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Acid Precipitation: Our Understanding of the Ecological Effects,
W77-12812 1024 5A

ECOLOGICAL IMPACTS
The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

ECOLOGICAL MODELS
Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Ecological Modeling in a Resource Management Framework: An Introduction,
W77-04494 1009 6G

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

ECOLOGICAL RECOVERY
Freshwater Ecological Effects,
W77-02657 1006 5G

ECOLOGICAL STANDARDS
Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

ECOLOGICAL STUDIES
The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

ECOLOGY
Ecological Impact of the Disposal of Municipal Sludge Onto Land,
W77-00027 1001 5E

Microorganisms as Indicators of the Environmental Hygiene: Ecology, Taxonomy and Enumeration, (In Dutch),
W77-00348 1001 5A

Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

1974 Annual Report, (Washington Natural Resources and Recreation Agencies).
W77-00957 1002 5G

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

The Ecology of Caddis Flies (Trichoptera) from Mountain Streams of Southern Tien-Shan (Exemplified by the Fauna of the Ak-Bura River), (In Russian),
W77-02892 1006 2I

Hydrology,
W77-02968 1006 6B

Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Ecology of Aquatic Saprophytic Phycomycetes. II, (In Russian),
W77-03201 1007 5C

Physical Exchange in Stream Ecology Studies,
W77-03648 1008 2J

Oil Conservation and Reclamation,
W77-04455 1009 5D

Ecolibrium, A Balance Between Economy and Ecology,
W77-04470 1009 6G

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Ecological Modeling in a Resource Management Framework: An Introduction,
W77-04494 1009 6G

The Delaware Estuary,
W77-04497 1009 6G

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

Estuarial Models,
W77-05015 1010 2L

Ecologic Models,
W77-05016 1010 5B

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

The Significance of Gravel Pits as a Biological Refuge, (In German),
W77-05205 1011 2H

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

Thermal Ecology II.
W77-05541 1011 5C

Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

Evaluation of the Environmental Impact to Appalachian Pennsylvania Waters of the 1972 Flood and Subsequent Stream Channelization with Future Policy Recommendations.
W77-06676 1014 4A

Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

Place and Role of Plant Cover in Optimization of the Donbas Natural Environment, (In Ukranian),
W77-06858 1014 4C

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

Literature on Environmental Protection, Management and Hygiene in Sweden 1952-1971: Bibliography and Analysis, (In Swedish),
W77-07586 1015 6G

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Environmental Assessment: The Ecological Dimension,
W77-08034 1016 6G

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

Ecological and Topographic Series of Vegetation of Erosion Forms of Relief in the Northeast of the Chernigov Territory, (In Ukranian),
W77-09622 1020 2I

The Ecology of Chydoridae (Cladocera) of Lake Baikal (In Russian),
W77-10064 1020 2H

Environmental Sciences.
W77-10098 1020 6G

Cadmium Concentrations in the Tissues of Bullia Digitalis (Prosobranchiata) from the South African West Coast,
W77-10203 1021 5C

Ecological Modeling.
W77-10841 1022 6A

The Krumme-Rhine Project as an Example of Ecologic Landscape Planning, (In German),
W77-11083 1022 6G

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

Feeding Ecology of Eelgrass Fish Communities,
W77-11644 1023 5C

Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

Proceedings of a Conference on Emerging Environmental Problems: Acid Precipitation.
W77-12809 1024 5A

Acid Precipitation: Our Understanding of the Ecological Effects,
W77-12812 1024 5A

Ecology of the Amphipod Pontogammarus Crassus (G. O. Sars) in the Kiev Reservoir, (In Russian),
W77-12930 1024 2H

ECONOMETRICS

Balancing Environmental Quality, Energy Use, and Growth: Difficult Decisions,
W77-00175 1001 6G

The Theory of Welfare Cost Measurement,
W77-00709 1002 6B

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W77-02068 1004 6C

ECONOMIC ANALYSIS
Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

ECONOMIC ASPECTS
Institutions and Objectives on the Water, Energy, Environment Interface,
W77-03934 1008 6B

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

Disaster Recovery Planning Report.
W77-05293 1011 6F

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

People and the Sound. Water Management.
W77-06594 1013 6B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

ECONOMIC DATA
Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

ECONOMIC EFFICENCY
Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

ECONOMIC EFFICIENCY
Water Problems and Property Rights--An Economic Perspective,
W77-00174 1001 6B

A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

Use Patterns for Depletable and Recycleable Resources,
W77-00708 1002 6C

Paying to Pollute.
W77-00972 1002 5G

The Cost-Effectiveness Approach in Analyzing a Water Supply Project for the Santa Elena Peninsula, Ecuador,
W77-01270 1003 6B

Panel 'A' - Automotive Emissions,
W77-02052 1004 6G

Equity Measures for Exploring Water Quality Management Alternatives,
W77-02075 1004 5G

Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Introduction and Overview,
W77-05669 1012 6B

Uncertainty and the Choice of Pollution Control Instruments,
W77-06704 1014 6G

Hydraulics and Economics of Well Field Layout.
W77-06863 1014 8B

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-06976 1014 5E

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Imperatives of Water Resources Planning in the Developing Economy of India,
W77-07555 1015 6A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

Ticket to Thermidor: A Commentary on the Proposed California Coastal Plan,
W77-08379 1017 6B

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

Economic Incentives for Land Use Control,
W77-09467 1019 6B

An Optimal State Water Law: Fixed Water Rights and Flexible Market Prices,
W77-09587 1019 6E

Application of Membrane Processes,
W77-09929 1020 3A

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

Low Cost Drainage Networks,
W77-10833 1022 4A

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Simultaneous Investment and Allocation Decisions Applied to Water Planning,
W77-12168 1023 6A

ECONOMIC FEASIBILITY
The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Economic Aspects of Pollution Abatement, Part 1,
W77-07260 1015 6E

Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

A New Approach for Estimating Irrigation Conveyance Losses and Their Economic Evaluation,
W77-12164 1023 3F

ECONOMIC FORECASTING

Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

ECONOMIC GROWTH

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Industrialist View,
W77-02050 1004 6G

An Input-Output Analysis of Environmental Preservation,
W77-06706 1014 6G

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

ECONOMIC IMPACT

Economic Impacts of State Environmental Programs in a National Framework: The Iowa Conservancy Law,
W77-00303 1001 6G

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

Contracting for Social Impact Assessment,
W77-00771 1002 6G

Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

Water Pollution Control Act of 1972, Economic Impacts, Grain Milling.
W77-01954 1004 5G

Water Pollution Control Act of 1972, Economic Impacts, Pilot Study, Five Industries,
W77-01959 1004 5G

Water Pollution Control Act of 1972, Economic Impacts, Chemical and Allied Industries,
W77-01960 1004 5G

Capital Markets and Water Quality Needs: 1975-1985.
W77-01967 1004 5G

Future Environmental Needs and Costs,
W77-02044 1004 6G

Introductory Remarks on Environmental Control Strategies,
W77-02048 1004 6G

Industrialist View,
W77-02050 1004 6G

Panel 'C' - Toxic Substances,
W77-02054 1004 6G

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

Economic and Environmental Impacts of Agricultural Land Drainage in Ontario,
W77-02425 1005 4A

Economic Impacts of Weather Variability,
W77-02429 1005 3B

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

The North Platte River Basin Economic Simulation Model (A Technical Report and Supplement to the Technical Report),
W77-04601 1010 6B

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Spill Penalties Draw Criticism,
W77-08973 1018 6E

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Environmental, Fiscal and Socio-Economic Impact of Land Use Policies: Toward an Interactive Analysis,
W77-09196 1019 6B

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

The Economic Impact of Environmental Programs.
W77-09457 1019 6B

Economic Assessment of Proposed Toxic Pollutant Effluent Standards for Manufacturers and Formulators of Aldrin/Dieldrin, DDT, Endrin and Toxaphene.
W77-09478 1019 5G

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

An Economic Analysis of Irrigated Farming with Diminishing Ground Water Reserves,
W77-10748 1021 4B

Economic Analysis of Effluent Guidelines: Textiles Industry,
W77-10749 1021 5G

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

ECONOMIC IMPACTS

Water Pollution Control Act of 1972, Economic Impacts, Direct and Cumulative Industry Impacts.
W77-04304 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, State and Local Revenue Expenditures.
W77-04305 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, Incidence of Costs, Distribution of Water Pollution Control Costs.
W77-04306 1009 5G

Public Law 92-500 Economic and Social Impacts: Technical Volume.
W77-04307 1009 5G

Disaster Recovery Planning Report.
W77-05293 1011 6F

ECONOMIC JUSTIFICATION

Panel 'E' - Resource Extraction,
W77-02056 1004 6G

Economic Effects of Enforcement Variables on Commercial Oil Pollution Control Strategy,
W77-02418 1005 5G

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

Hydrology,
W77-02968 1006 6B

Investigation of the Physical Feasibility of Mobile Fish Processing Plants,
W77-03558 1007 6B

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

ECONOMIC OPTIMUM

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

ECONOMIC RESEARCH SERVICE (U.S. DEPT. OF AGRICULTURE)

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

ECONOMIC SIMULATION MODEL

The North Platte River Basin Economic Simulation Model (A Technical Report and Supplement to the Technical Report),
W77-04601 1010 6B

ECONOMIC SUB-REGIONS

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

ECONOMIC TRADE-OFFS

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

ECONOMIC ZONE

Post Caracas: Striking a Bargain for Settlement at Geneva,
W77-06054 1012 6E

ECONOMIC ZONES

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

LOS III: Prospects and Problems,
W77-04353 1009 6E

ECONOMIC ZONES (SEAS)

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

ECONOMICS

Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

Processing, Economics and Sale of Heat Dried Sludge,
W77-00037 1001 5D

Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

'Approaches to Multi-Objective Planning in Water Resource Projects,' by Bernard W. Taylor III, K. Roscoe Davis, and Ronald M. North,
W77-01510 1003 6B

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

Inland Water Pollution.
W77-01697 1004 5G

Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

Old Answers to 'New' Problems: Henry George, Property Rights and Environmental Quality,
W77-02539 1005 6B

Wastewater Requirements Multiply Solids Problems,
W77-02601 1006 5G

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

Economics of Storm Protection,
W77-02672 1006 6F

Residual Waste Management Research and Planning Projects, September 1975,
W77-03355 1007 5B

Economic Modeling for Water Policy Evaluation.
W77-03924 1008 6A

Water Resource Models: A Historical Summary,
W77-03925 1008 6A

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-03931 1008 5G

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Technical and Microeconomic Analysis of Cadmium and its Compounds,
W77-03963 1008 5B

Monitoring Groundwater Quality: Economic Framework and Principles,
W77-04113 1009 5A

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Economic Models,
W77-05017 1010 6A

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-05187 1011 6D

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

A Structural-Functional Analysis of the Socio-Political System Relative to Water and Related Land Resources in the Coastal Zone of South Carolina,
W77-05722 1012 6B

Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

The Evaluation of Simple and Optimal Decision Rules with Misspecified Welfare Functions,
W77-07439 1015 6B

Economic Value of Low Flow Data,
W77-07537 1015 5D

Objective Function and Constraints in Water Resources Systems,
W77-08046 1016 6A

Production of Energy From Concentrated Brines by Pressure-Retarded Osmosis, 1. Preliminary Technical and Economic Correlations,
W77-08233 1017 3A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Water Supply Economics,
W77-08863 1018 6B

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

EPA Proposes Untimely Amendments,
W77-08970 1018 5G

Effects of Economic Development on Water Resources,
W77-09051 1018 5G

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

The Economic Impact of Environmental Programs.
W77-09457 1019 6B

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

The Values of Goods and Services--Implications for a Flexible National Water Policy,
W77-10837 1022 6B

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

Social Cost of Oil Pollution,
W77-11892 1023 5G

Economic Potential and Management Considerations in Land Application of Beef Feedlot Wastes,
W77-11977 1023 5G

Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

Environmental Impact on Property Values Along New York's Lake Erie Coastline,
W77-12960 1024 5G

ECONOMIES OF SCALE

The Relevance of Technological Change in Long Term Water Resource Planning,
W77-00113 1001 6B

The Economic Water Supply in Idaho,
W77-00538 1002 6B

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Do Economies of Scale Exist in Water Utility,
W77-09450 1019 5F

ECONOMY

Ecolibrium, A Balance Between Economy and Ecology,
W77-04470 1009 6G

ECOSYSTEM

Illinois Coastal Zone Management Program: Component Study of Biological Communities.
W77-10505 1021 2H

ECOSYSTEMS

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

Ecosystem Models and Environmental Policy,
W77-01172 1003 6G

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Nutrient Recycling and the Stability of Ecosystems: Implications for Forest Management in the Southeastern U.S.,
W77-01420 1003 2K

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Ecological Modeling and Estimation of Stress,
W77-02622 1006 5C

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Investigations on the Role of Dissolved Organic Matter in Determining Ecosystem Structure and Function: The Plankton and Photoheterotrophy,
W77-03389 1007 5C

Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems.
W77-03642 1008 5B

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

Ecosystem of the River Piva and Biological Valorization of its Waters, (In Serbo-Croatian),
W77-03852 1008 5B

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Cleaner: The Lake George Model,
W77-04495 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

The Distribution of Transuranic Elements in a Freshwater Pond Ecosystem,
W77-04510 1009 5C

Mathematical Models,
W77-04523 1009 6A

Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus

(L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

Movement of Subterranean Waters in the Ecosystem of the Amazonian Campina, (In Portugese),
W77-04773 1010 2F

Lake Ontario Atlas: Land Use,
W77-04846 1010 2H

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

The Ecological Impact of Synthetic Organic Compounds on Estuarine Ecosystems,
W77-05028 1010 5C

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Heated Waste-Water Effects on Aquatic Ecosystems,
W77-05545 1011 5C

The Environment of South Florida, A Summary Report,
W77-05738 1012 6G

The American Experience,
W77-05941 1012 6G

Flood Effects on Stream Ecosystems,
W77-05949 1012 4D

General Ecological Concepts in Hydrobiology and Problems of Regulating Freshwater Ecosystems, (In Russian),
W77-06134 1013 6G

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

A Conceptual Representation of the New York Bight Ecosystem,
W77-08900 1018 5B

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Binghamton Wastewater Management Study: Background Information Appendix.
W77-09381 1019 5G

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

Sensitivity Analysis of the Water Quality for River-Reservoir Systems Model,
W77-09981 1020 5B

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Environmental Sciences.
W77-10098 1020 6G

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

An Ecosystem Approach to the Planning of Water Pollution Control,
W77-10367 1021 5G

Introduction: Rationale, Objectives and Logistics,
W77-10894 1022 2L

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Impact of the Marsh Buggy on the Wetlands,
W77-11035 1022 4C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

Dissolution of Amophous Silicon on Lake Michigan,
W77-11140 1022 5B

Optimal Control Theory Applied to a Dynamic Aquatic Ecosystem,
W77-11258 1022 5C

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Polychlorinated Biphenyl Compounds (PCB's) and Fishery Resources,
W77-12213 1023 5C

ECOTYPES

Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

Ecological Data on Continental Aquatic Vegetation, (In Spanish),
W77-06784 1014 2I

ECTOTYPES

Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

EDDIES

Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

An Investigation of a Cold Eddy on the Eastern Side of the Gulf Stream Using NOAA 2 and NOAA 3 Satellite Data and Ship Data,
W77-00364 1001 2L

Geometry of River Meanders,
W77-01340 1003 2E

Eddy Energy in the Oceans,
W77-01920 1004 2L

Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Eddy Kinetic Energy in the Deep Western North Atlantic,
W77-03088 1007 2L

California Current Eddy Formation: Ship, Air, and Satellite Results,
W77-06523 1013 2L

EDDY DIFFUSIVITY

Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

EDDY ENERGY

Eddy Energy in the Oceans,
W77-01920 1004 2L

Eddy Kinetic Energy in the Deep Western North Atlantic,
W77-03088 1007 2L

EDDY FORMATION

California Current Eddy Formation: Ship, Air, and Satellite Results,
W77-06523 1013 2L

EDDY VISCOSITY
A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

EDISTO ESTUARY (SC)
A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

EDIZ HOOK (WASH)
Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

EDMONTON AREA (ALBERTA)
Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

EDMUNDSON CREEK (CA)
Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

EDTA
Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Problems Encountered with EDTA as an Anticoagulant for Fish Blood,
W77-11564 1023 5A

EDUCATION
Graduate Education Opportunities in Water Resources in the State of Minnesota.
W77-00156 1001 9A

Education and Traning in Water Resources Planning,
W77-01344 1003 6B

Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

Education in Land Use Decision Making,
W77-04486 1009 6B

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

Erosion and Sediment Control Audiovisual Training Program, Instructor's Manual,
W77-12815 1024 5G

EDWARDS AQUIFER
Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

EDWARDS AQUIFER (TEX)
Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

EDWARDS LIMESTONE (TEX)
Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

EDWARDS PLATEAU (TEXAS)
Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

EDWARDSIELLA TARDA
Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

EELGRASS
Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

Feasibility of Transplantation, Revegetation, and Restoration of Eelgrass in San Diego Bay, California,
W77-03546 1007 5G

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

EELGRASS FISH COMMUNITIES
Feeding Ecology of Eelgrass Fish Communities,
W77-11644 1023 5C

EELS
Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

The Effect of Sulphates and Phosphates (Industrial Wastes) on the Mucopolysaccharides Content of the Gills of the Eel Anguilla Anguilla (L.),
W77-05857 1012 5C

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

EERSTE RIVER
A Hydro-Economic Evaluation of Forestry in the Eerste River Catchment,
W77-01368 1003 4A

Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

EFFECTIVE POROSITY
Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

EFFECTS
On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Effect of Agricultural and Silvicultural Practices on the Runoff from Drainage Basins of the Nizhnedevitskaya Hydrologic Station,
W77-08835 1018 4C

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

Fall Soil Water: Effect on Summer Soil Temperature,
W77-11238 1022 2G

EFFECTS OF DISPERSANTS
Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

EFFICIENCES
Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

EFFICIENCIES
Discounted Cash Flow Analysis to Select Equipment,
W77-00049 1001 5D

Effluent Charges and Political Realities--A Qualification,
W77-00392 1001 5G

Relation of Operation and Maintenance to Treatment Plant Efficiency,
W77-00582 1002 5D

For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Oxygen Transfer in a 23-Meter Bubble Column,
W77-03579 1007 5D

Plain End Pipe Means Production Efficiency,
W77-04660 1010 8G

Sewer Cleaning System Combines Versatility, Low Initial Cost,
W77-04664 1010 8G

Optimization Model of a System of Two Open-Channel Hydroplants,
W77-06716 1014 4A

EFFICIENCIES

Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

Physical - Chemical Treatment Plant Design,
W77-10534 1021 5D

Activated Sludge Process Design,
W77-12407 1024 5D

EFFLUENT

Caloric Changes Along Pulp and Paper Mill Effluent Plumes,
W77-12066 1023 5B

EFFLUENT CHARGES

A Note on Effluent Charges and Market Structure,
W77-03955 1008 5G

Effluent Charges and Licenses Under Uncertainty,
W77-03959 1008 5G

The Symmetry of Effluent Charges and Subsidies for Pollution Control,
W77-03962 1008 5G

EFFLUENT GUIDELINES

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

Implications of the Water Pollution Control Act of 1972 for the Mineral Resources Industry, A Survey.
W77-02806 1006 5G

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

Economic Analysis of Effluent Guidelines: Textiles Industry,
W77-10749 1021 5G

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

EFFLUENT LIMITATION GUIDELINES

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

EFFLUENT LIMITATIONS

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

Complying with Discharge Regulations,
W77-08954 1018 5G

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
W77-08984 1018 5G

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

EFFLUENT PLUME

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

EFFLUENT POLISHING

Effluent Polishing by Filtration through Activated Alumina, Volume II, (March, 1975).
W77-02755 1006 5D

EFFLUENT QUALITY IMPROVEMENT

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

EFFLUENT SPRAYING

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

EFFLUENT STANDARDS

National Effluent Standards,
W77-02061 1004 5G

Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

EFFLUENT STREAMS

Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

EFFLUENTS

Effects of Sewage Sludge or Effluent Application to Soil on the Movement of Nitrogen, Phosphorus, Soluble Salts and Trace Elements to Groundwaters,
W77-00029 1001 5C

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for

Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

Instrumentation in the Water Industry.
W77-00601 1002 5A

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

Effluent Polishing by Filtration through Activated Alumina, Volume II, (March, 1975).
W77-02755 1006 5D

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

A Scheme for Effective Control of Effluent pH,
W77-03802 1008 5D

Use of Effluents from Fermentation Plants for Field Irrigation (Ispol'zovanie stochnykh vod gidroliznykh zavodov dlya orosheniya polei),
W77-03814 1008 5D

Mineral Mining and Processing Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources for Pretreatment Standards for Incompatible Pollutants.
W77-04374 1009 5G

Environmental Protection Agency: Petroleum Refining Point Source Category.
W77-04376 1009 5G

Environmental Protection Agency: Inorganic Chemicals Manufacturing Point Source Category.
W77-04377 1009 5G

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

Solving an Interim Problem of Treatment Plant Overload,
W77-04701 1010 5D

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

Effluent Guidelines and Standards: Plastics and Synthetics Manufacturing Point Source Category,
W77-04928 1010 5G

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

Optimal Size of Regional Wastewater Treatment Plants,
W77-05929 1012 5D

The Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W77-06532 1013 5D

The Generation of Residual Flows in Norway: An Input-Output Approach,
W77-06698 1014 5G

Activated Sludge Treatment of High Strength NSSC Mill Effluent,
W77-06945 1014 5D

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-06976 1014 5E

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

United States V Cutter Laboratories, Inc (Civil Liability of a Permittee for Whom no Industrial Effluent Limitations or Guidelines Exist).
W77-07274 1015 6E

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Proceedings, Technology Transfer Seminar on High Quality Effluents,
W77-07330 1015 5D

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

Complying with Discharge Regulations,
W77-08954 1018 5G

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Activated Carbons for Effluent and Water Treatment,
W77-09409 1019 5D

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Ultrafiltration--The Current State of the Art,
W77-10338 1021 5D

Approach to Liquid Effluent Control in a Nitrogenous Fertilizer Plant,
W77-10370 1021 5G

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Analysis of Pollutants in Effluents of a Pyrolysis Factory (Analiz zagryaznenii stochnykh vod piroliznogo predpiyatiya),
W77-10698 1021 5A

Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

Coal Mine Point Source Category Effluent Guidelines and Standards.
W77-11152 1022 6E

Louisiana Pacific Corporation and Crown Simpson Pulp Company (Requests for Variances from BPCTCA).
W77-11459 1022 5G

Aquaculture Projects.
W77-11460 1022 5G

Characteristics of Poultry Processing Effluent,
W77-11531 1023 5B

Organic Contaminants in Aqueous Coal Conversion Effluents: Environmental Consequences and Research Priorities,
W77-11647 1023 5C

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

Protozoa as Test Organisms for the Evaluation of the Properties of Effluents (Prosteishie mikroorganizmy kak test-ob''ekty dlya otsenki svoistv stochnykh vod),
W77-12349 1024 5A

Storage of Treated Sewage Effluent and Storm Water in a Saline Aquifer, Pinellas Peninsula, Florida,
W77-12377 1024 5E

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

Review Paper: The Toxicity of Pulp and Paper Mill Effluents and Corresponding Measurement Procedures,
W77-12865 1024 5C

EGG PRODUCTION

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

EGGS

Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Effects of Cadmium on Development and Survival of Herring Eggs,
W77-04554 1009 5C

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

Significance of Egg and Larval Surveys in the Studies of Population Dynamics of Fish,
W77-05833 1012 2L

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

EGGSHELLS

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

EGYPT

Beware The Wrath Of Osiris,
W77-00177 1001 4A

Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Transplantation of Juncus SPP. On Saline Soils in Egypt,
W77-12739 1024 3C

EGYPTIAN COAST

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

EICHORNIA CRASSIPES

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

EIFEL MOUNTAINS (GERMANY)

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

EIS
Draft Environmental Statement: Project Skywater A Program of Research in Precipitation Management, Volume I of II.
W77-01187 1003 6G

EKMAN-TYPE MODELS
Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

EL PASO AREA (TEX)
Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

EL VADO LAKE (NM)
Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

ELASMOBRANCHS
Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

ELASTIC MODULUS
Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

ELASTICITY (MECHANICAL)
Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

ELASTICITY OF DEMAND
Estimating Net Benefits of Recreation Under Conditions of Excess Demand,
W77-03964 1008 6D

ELASTICITY OF SUPPLY
The Economic Water Supply in Idaho,
W77-00538 1002 6B

ELASTOMERS
Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

ELBE ESTUARY (W. GERMANY)
On the Fauna of a Freshwater Flat in the Elbe Estuary (Germany), (In German),
W77-04087 1008 5C

ELECTRETS
Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

ELECTRIC CABLES
Choosing the Right Cable for the Right Job.
W77-12671 1024 8C

ELECTRIC CONVERTERS
Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

ELECTRIC CURRENTS
Line Power Variations Cause Pump Motor Problems,
W77-12666 1024 8C

ELECTRIC GENERATOR
Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

ELECTRIC GENERATORS
An Investigation of Techniques to Expedite Synchronizing for Pump-Storage Units and Standby Generating Units,
W77-01686 1004 8C

ELECTRIC MOTOR FACE SEALS
Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

ELECTRIC MOTORS
It's All on the Nameplate: Everything You Always Wanted to Know About Jet Pumps,
W77-06854 1014 8C

Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

Line Power Variations Cause Pump Motor Problems,
W77-12666 1024 8C

Choosing the Right Cable for the Right Job.
W77-12671 1024 8C

ELECTRIC POWER
The Cooling Water Equation,
W77-01468 1003 6D

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

Conservation as a Major Alternative,
W77-04854 1010 3E

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

Reclamation Research in the Seventies, Second Progress Report,
W77-07600 1015 8A

Gas Turbine Gen-Sets for Sewage Treatment Standby.
W77-12442 1024 5D

ELECTRIC POWER COSTS
Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

A Case for Geothermal Energy,
W77-08655 1018 8C

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

Reduction and Recovery: Keys to Energy Self-Sufficiency,
W77-09877 1020 5D

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

ELECTRIC POWER DEMAND
Conservation as a Major Alternative,
W77-04854 1010 3E

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

ELECTRIC POWER GENERATION
Geothermal Systems and Power Development,
W77-07302 1015 4B

ELECTRIC POWER INDUSTRY
Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

A Scientific and Legal Look at Thermal Pollution,
W77-07256 1015 6E

ELECTRIC POWER PLANTS
Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

ELECTRIC POWER PRODUCTION
A Computerized Information System on the Impacts of Coal-Fired Energy Development in the Southwest,
W77-02163 1005 6G

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

Geothermal Power, The 'Sleeper' in the Energy Race,
W77-07296 1015 3E

Electric Power Generation from Geothermal Hot Water Deposits,
W77-07300 1015 8C

Geothermal Energy: Needed, Effective Heat Transfer Equipment,
W77-07301 1015 8G

Geothermal Resources, A New Look,
W77-07477 1015 4B

Pumped Storage Optimization in Generation Systems,
W77-07525 1015 4A

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Production of Energy From Concentrated Brines by Pressure-Retarded Osmosis, 1. Preliminary Technical and Economic Correlations,
W77-08233 1017 3A

Appropriation of Water for Power (Hydroelectric Power Projects).
W77-08395 1017 6E

A Case for Geothermal Energy,
W77-08655 1018 8C

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

Impact on Texas Water Quality and Resources of Alternate Strategies for Production, Distribution, and Utilization of Energy in Texas in the Period 1974-2000,
W77-10930 1022 5C

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

ELECTRIC POWERPLANTS

Nonwater-Intensive Energy Resources.
W77-00549 1002 6D

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Energy Plant Siting Legislation,
W77-09050 1018 6E

Computer Applications to Achieve Optimum Economic Loading of Generating Plants,
W77-10288 1021 6A

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Meeting Water-Recycle Requirements at a Western Zero-Discharge Plant,
W77-12006 1023 5D

Power Plants and Plankton,
W77-12039 1023 5C

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

ELECTRIC WIRING

Pumping Systems: Part II,
W77-07704 1016 8C

ELECTRICAL CONDUCTANCE

Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

An Electrical Conductivity Probe for Determining Soil Salinity,
W77-04763 1010 2G

Predicting Specific Conductance and Salt Concentration in Dilute Aqueous Solutions,
W77-04765 1010 2G

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

ELECTRICAL CONDUCTIVITY

Effects of Liquid-Phase Electrical Conductivity, Water Content, and Surface Conductivity on Bulk Soil Electrical Conductivity,
W77-04250 1009 2G

ELECTRICAL DATA COLLECTING

Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

ELECTRICAL DESIGN

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

ELECTRICAL EQUIPMENT

Pumping Systems: The Simpler, The Better,
W77-06856 1014 8C

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

Actuators for Edinburgh's New Sewage Disposal Scheme.
W77-12429 1024 5D

ELECTRICAL PERMITTIVITY

Electrical Methods of Determining Soil Moisture Content,
W77-12818 1024 2G

ELECTRICAL POWER PRODUCTION

Power from the Sea,
W77-00977 1002 3E

Power and Water for South West Africa,
W77-01382 1003 3E

ELECTRICAL RESISTANCE

Electrical Resistivity Measurements on the Ross Ice Shelf,
W77-08051 1016 2C

ELECTRICAL RESISTIVITY

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

ELECTRICAL WELL LOGGING

Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

Electric Logging,
W77-06865 1014 8G

Downhole Measurements Through Modified Drill Pipe,
W77-07304 1015 8G

ELECTRO-FISHING

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

ELECTRO-OPTICAL DEVICE

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

ELECTROCARDIOGRAM

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

ELECTROCHEMICAL BIOCIDES

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

ELECTROCHEMICAL GRADIENT

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

ELECTROCHEMICAL ORGANIC CONTENT ANALYZER

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

ELECTROCHEMISTRICAL STRIPPING

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

ELECTROCHEMISTRY

Brilliant Non-Cyanide Zinc Plating.
W77-00748 1002 5D

Electrochemistry,
W77-01999 1004 5D

Purification of Effluents from the Manufacture of Paper and Board by Electrochemical Method (Ochistka stochnykh vod kartonnogo-bumazhnogo proizvodstva elektrokhimicheskim metodom),
W77-03789 1008 5D

Electrochemical Purification of Effluents from the Manufacture of Sulfite and Kraft Pulps (Elektrokhimicheskaya ochistka stochnykh vod ot proizvodstva sul'fitnoi i sul'fatnoi tsellyulozy),
W77-03815 1008 5D

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Study of the Influence of Electrocoagulation Conditions on the Efficiency of Pulp and Paper Mill Effluent Purification (Izuchenie vliyaniya uslovii elektrokoagulyatsii na effektivnost' ochistki stochnykh vod tsellyulozno-bumazhnoi promyshlennosti),
W77-12338 1024 5D

ELECTROCOAGULATION

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

ELECTRODES

A New Technique for Rapid and Continuous Measurement of Redox Potentials,
W77-00299 1001 2G

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Apparatus for Treatment of Aqueous Sewage Composition,
W77-00577 1002 5D

Enzymatic in Situ Measurements: New Seawater and Sediment Measurement Methods, (In German),
W77-01031 1002 5A

Waste Water Treatment,
W77-01217 1003 5D

Electrochemistry,
W77-01999 1004 5D

The Use of A Specific Ion Electrode for Determination of Bromide in Soils,
W77-02100 1005 2G

Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

An Assessment of Various Types of Reference Electrode for use in Continuous Potentiometric Analysis with Particular Application to Highly Pure Waters,
W77-05678 1012 2K

Measurement of Complexation Properties of Humic and Fulvic Acids in Natural Waters with Lead and Copper Ion-Selective Electrodes,
W77-05679 1012 5A

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Sewage Treatment Apparatus,
W77-07896 1016 5D

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

New Oxygen Meters.
W77-12399 1024 5A

ELECTRODIALYSIS

Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Electrochemistry,
W77-01999 1004 5D

Electrodialysis in Water Desalination and the Influence of Ion Exchange Resin Introduction into the Apparatus,
W77-11074 1022 3A

Ion-Permselective Membranes,
W77-11075 1022 3A

The Role of Membrane Methods in the Desalination of Brackish Water,
W77-11076 1022 3A

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

Thin Cell Electromembrane Separator,
W77-11917 1023 3A

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

ELECTROFLOTATION

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

ELECTROHYDRAULICS

Bactericidal Action of Electrohydraulic Effect in Water, (In Russian),
W77-04088 1008 5C

ELECTROLYSIS

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

Method of Disinfecting Water,
W77-01734 1004 5F

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

Water Decontamination in Northern Regions by Impulse Electric Charges, (In Russian),
W77-06791 1014 5D

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

Electrolytic Treatment of Chromate and Cyanide Wastes with Packed Bipolar Cell, (In Japanese),
W77-07211 1015 5D

Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

Sewage Treatment Apparatus,
W77-07896 1016 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Waste Water Treatment,
W77-12927 1024 5D

ELECTROLYTES

Electrolytic Purification of Industrial Effluents-for Removal of Heavy Metals, Oil, Etc.,
W77-05509 1011 5D

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

ELECTROMAGNETIC FILTERS

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

ELECTROMAGNETIC WAVES

Radio-Echo Sounding of Temperate Glaciers: Ice Properties and Sounder Design Criteria,
W77-08229 1017 2C

Measurement of the Attenuation of Electromagnetic Radiation by Water in the Visible Region of the Spectrum,
W77-08293 1017 1A

ELECTRON BEAM TREATMENT

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

ELECTRON-CAPTURE GAS CHROMATOGRAPHY

Electron Capture Gas Chromatographic Methodology for the Quantitation of Polychlorinated Biphenyls: Survey and Compromise,
W77-03779 1008 5A

ELECTRON IMPACT EXCITATION

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

ELECTRON MICROSCOPY

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

Asbestos in Potable Water,
W77-06016 1012 5A

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

An Electron Microscopy Study of Particulates Present in Individual Raindrops,
W77-11821 1023 2B

ELECTRON PARAMAGNETIC RESONANCE
Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

ELECTRON SPIN RESONANCE
Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

ELECTRON TRANSFER
Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

ELECTRON TREATMENT
Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

ELECTRONIC EQUIPMENT
A Light in the Water.
W77-04282 1009 8G

Bits and Pieces,
W77-06866 1014 8G

Downhole Measurements Through Modified Drill Pipe,
W77-07304 1015 8G

ELECTRONIC MONITORING
An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

ELECTRONIC TEMPERATURE CONTROLLER
Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

ELECTRONIC THERMOMETER
Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

ELECTROOXIDATION
Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

ELECTROPHORESIS
Coagulation Clarifying Effluents Contaminated with Colloid Suspensions-By Electrophoresis After Mixing in Insoluble Metallic Particles.
W77-03408 1007 5D

Ontogenetic Variation in the Multiple Hemoglobins of Coho Salmon (Oncorhynchus Kisutch) and Effect of Environmental Factors on their Expression,
W77-04054 1008 5C

Electrobiochemical Neutralization of Acid Mine Water,
W77-10569 1021 5B

ELECTROPHYSIOLOGICAL MONITORING
Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

ELECTROPLATING INDUSTRY
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

ELECTROPLATING INDUSTRY WASTES
Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

ELECTROSHOCKING
Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

ELECTROSTATIC
Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

ELEFSIS BAY (AEGEAN SEA)
Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

ELEPHANT BUTTE RESERVOIR (N MEX)
Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

ELEVATION
Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

ELIMINATION
Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

ELKHORN SLOUGH (CALIF)
Aspects of the Life History of Tresus Nuttallii in Elkhorn Slough,
W77-07388 1015 2L

ELLESMERE ISLAND (CANADA)
Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

ELLIPTICAL SEWERS
Critical and Brink Depths in Elliptical Sewers,
W77-09841 1020 8B

ELM FORK TRINITY RIVER (TEX)
Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

ELMINIUS SP
The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

ELODEA
Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

ELODEA DENSA
Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

ELUTRIATE
Analyses of Native Water, Bed Material, and Elutriate Samples of Major Louisiana Water Waterways, 1975,
W77-09084 1018 5A

EMBANKMENT DAMS
Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

EMBANKMENTS
Undrained Behavior of Embankments on New Liskeard Varved Clay,
W77-03108 1007 8D

Ogle V Terminal Railroad Association of St. Louis (Flooding Damages from Railway's Inadequate Culvert Openings).
W77-04385 1009 6E

Brizendine V Nampa Meridian Irrigation District (Duty to Maintain Canal),
W77-06077 1012 6E

Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

EMBDEN-MEYERHOF GLUCOSE METABOLISM PATHWAY
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

EMBEDMENT STRAIN GAGES
Strain Meters and Stress Meters for Embedment in Models of Mass Concrete Structures; Report 2, Evaluation of Microdot Embedment Strain Gage,
W77-10785 1021 8G

EMBOLISM
Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

EMBRYOGENESIS
LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

EMBRYONIC GROWTH STAGE
Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Regulation of Oxygen Consumption by Incident Illumination in Embryonated Ova of Atlantic Salmon Salmo Salar L.,
W77-03051 1006 5C

Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Seasonal Changes in Dimensions and Viability of the Developing Eggs of the Cornish Pilchard (Sardina Pilchardus Walbaum) Off Plymouth,
W77-05825 1012 2L

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

Quantitative Nucleic Acid Histochemistry of the Yolk Sac Syncytium of Oviparous Teleosts: Implications for Hypotheses of Yolk Utilization,
W77-05850 1012 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

EMBRYONIC GROWTH STAGES

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

EMERGENCE PATTERNS (INSECTS)

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

EMERGENCY WATER SUPPLY

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

EMERGING VEGETATION STAGE

Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

EMINENT DOMAIN

Gardner V Hamilton (Right to Exercise Eminent Domain for Flood Control).
W77-00996 1002 6E

Drainage Districts; Powers.
W77-01006 1002 6E

Diking Districts; Powers.
W77-01008 1002 6E

Water Power Companies--Eminent Domain,
W77-01117 1003 6E

Specific Grants of Power (Condemnation and Rights-of-Way).
W77-03493 1007 6E

Control of Water and Eminent Domain.
W77-03503 1007 6E

General Basis of Water Rights in Utah.
W77-03504 1007 6E

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

Eminent Domain.
W77-03517 1007 6E

State Administration Generally (Powers and Duties of the Department of Water Resources).
W77-03704 1008 6E

Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

Canal Authority V Ocala Manufacturing Ice and Packing Company (Construction of Cross Florida Barge Canal).
W77-03715 1008 6E

Powers Respecting Flood Control.
W77-06072 1012 6E

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

Wood V. Board of Commissioners for the Pontchartrain Levee District (Land Appropriation for Levees),
W77-08144 1017 6E

Russo V. New York Dept. of Environmental Conservation (Limits of State Regulations Restricting Alteration of Wetlands).
W77-08388 1017 6E

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

EMISSION STANDARDS

The Saga of the Environmental Standard,
W77-02060 1004 6G

EMITTER FLOW

Temperature Effects on Emitter Discharge Rates,
W77-11406 1022 3F

EMPHYSEMA

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

EMPIRICAL HYDROGRAPHS

Multidimensional Statistic Modelling of Hydrological Processes on the Basis of Structural Analysis of the Empirical Hydrographs of Runoff,
W77-07662 1016 2A

EMULSIFICATION

A Method for Determining the Dispersive Capacity of Preparations used for Removing Oils from Water Surface, (In Russian),
W77-01028 1002 5B

EMULSIFIERS

A Method for Determining the Dispersive Capacity of Preparations used for Removing Oils from Water Surface, (In Russian),
W77-01028 1002 5B

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

EMULSIFIERS

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

EMULSIONS

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

ENCEPHALITIS

Impact of Water Resources on Vector-Borne Diseases,
W77-11774 1023 5B

ENCROACHMENT

Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

Encroachments on Navigable Lake.
W77-07264 1015 6E

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

Elucidating Salination Mechanisms by Stable Isotope Tracing of Water Sources,
W77-11056 1022 5B

ENCROACHMENT LINES

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

ENCRUSTATION

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

ENDANGERED SPECIES

Proceedings Mississippi Water Resources Conference 1976.
W77-06084 1012 4A

ENDEMIC GOITER

Trace Elements in the Environment of Some Goiter Regions of the Tashkent Oblast, (In Russian),
W77-02388 1005 5G

ENDEMIC SPECIES

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

ENDOCHIRONOMUS-ALBIPENNIS

Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

ENDOGENOUS NITROGEN

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

ENDOSULFAN

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

ENDOTHAL

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

ENDOTHALL

Diquat and Endothall: Their Fates in the Environment,
W77-05204 1011 5B

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

ENDOTOXINS

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

ENDRIN

Toxicity of Endrin and an Endrin-Methyl Parathion Formulation to Largemouth Bass Fingerlings,
W77-01066 1003 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

ENERGY

On The Fracture Properties of Snow,
W77-00083 1001 2C

Environmental Effects of Alternative Energy Developments in the Northern Great Plains,
W77-00115 1001 6G

Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

Balancing Environmental Quality, Energy Use, and Growth: Difficult Decisions,
W77-00175 1001 6G

Energy, Water, and the West,
W77-00542 1002 6D

The Impact of Proposed Federal Energy Development on Western Water Resources,
W77-00543 1002 4C

Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

Views from the Energy Industries.
W77-00548 1002 6D

Nonwater-Intensive Energy Resources.
W77-00549 1002 6D

Wave Generator,
W77-00691 1002 8C

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

Wave Energy Machine,
W77-01194 1003 8C

Energy for Water,
W77-01273 1003 6D

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

Water Available for Energy--Upper Colorado River Basin,
W77-01350 1003 3E

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Osmosis Process for Producing Energy,
W77-01751 1004 3A

System for Utilizing Energy in a Fluid Current,
W77-01752 1004 8C

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

Eddy Energy in the Oceans,
W77-01920 1004 2L

Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

Irrigation Scheduling for Energy and Water Conservation,
W77-02093 1005 3F

Energy from Coal.
W77-02430 1005 6D

Proceedings of: National Conference on Health, Environmental Effects, and Control Technology of Energy Use.
W77-02649 1006 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

Eddy Kinetic Energy in the Deep Western North Atlantic,
W77-03088 1007 2L

Large Factory-Built Pump Station Begins Operation.
W77-03438 1007 8C

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

How to Reduce Steam Consumption in the Paper Mill Machine Room,
W77-04822 1010 3E

Wasted Heat and Aquatic Ecosystems,
W77-04869 1010 5C

The Rocky Road to Water for Energy,
W77-04904 1010 3E

Energy, Agriculture and Waste Management,
W77-05308 1011 4C

River Turbine,
W77-05660 1012 4A

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Energy Requirements for Wastewater Treatment. Part 2,
W77-06252 1013 5D

Wave Energy Power Generating Breakwater,
W77-06449 1013 8B

Evaporation and Advection II: Evaporation Downwind of a Boundary Separating Regions Having Different Surface Resistances and Available Energies,
W77-06897 1014 2D

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

Energy Conservation and Heat Recovery in Waste Water Treatment Plants,
W77-07024 1014 5D

Brace Research Institute, Annual Report, (1976),
W77-07242 1015 3A

Energy Development and Its Effect on Ground Water,
W77-07691 1016 5B

NWWA Ground Water Heat Pump Research Imperatives,
W77-07692 1016 8C

Research Foundation Utilizes Ground Water Heat Pumps,
W77-07693 1016 8C

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W77-08351 1017 4B

Coastal Energy Impact Program.
W77-08358 1017 6E

Today's Windmills: A Blend of Old and New,
W77-08650 1018 8C

Ground Water - Solar Heat,
W77-08652 1018 8C

Total Energy Use in an Urban-Agricultural Power Plant Complex,
W77-08691 1018 5G

An Energy Accounting Evaluation of Several Alternatives for Hydropower and Geothermal Development,
W77-09057 1018 6B

An Environmental Residual Allocation Model,
W77-09179 1019 5B

Reduction and Recovery: Keys to Energy Self-Sufficiency,
W77-09877 1020 5D

Winter and Summer Insolation Patterns for Southern Africa,
W77-10195 1021 2B

Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

Here Comes the Sun.
W77-10518 1021 8C

Can Irrigation with Municipal Waste Water Conserve Energy,
W77-10579 1021 5E

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Energy Usage and Recovery in Sludge Disposal Part 1,
W77-10632 1021 5D

Impact on Texas Water Quality and Resources of Alternate Strategies for Production, Distribution, and Utilization of Energy in Texas in the Period 1974-2000,
W77-10930 1022 5C

Studies of Pressure and Energy of Standing Waves,
W77-10964 1022 8B

Sensitivity of Desalted Water Costs from Various Processes to Changing Energy Prices,
W77-11072 1022 3A

Prospects of the Exploitation of Advanced Energy Resources in Water Production in the Middle East,
W77-11116 1022 3A

Peripheral Mixing Turns Sludge into Fuel Gas.
W77-11704 1023 5D

Water Treatment Plant Design is Cost-Effective,
W77-11742 1023 5D

Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

Energy Uses and Recovery in Sludge Disposal, Part 2,
W77-12498 1024 5E

A Model to Predict Total Energy Requirements and Economic Costs of Irrigation Systems,
W77-12503 1024 3F

Minimum Energy Designs for Selected Irrigation Systems,
W77-12537 1024 3F

Northern Great Plains Resources Program: Water Quality Subgroup Report,
W77-12588 1024 5C

Energy (Hot Water) Storage in Groundwater Aquifers,
W77-12625 1024 4B

Water Well Journal Funds Heat Pump Research.
W77-12676 1024 8C

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

ENERGY BALANCE

Energy Balance Computations of Snowmelt in a Subarctic Area,
W77-00373 1001 2C

Tasks and Principles of Biological Analysis of the Degree of Pollution of Water Bodies, (In Russian),
W77-04598 1009 5A

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

ENERGY BUDGET

A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

Energy Balance Computations of Snowmelt in a Subarctic Area,
W77-00373 1001 2C

Plant Production in Experimental Streams, A Cooperative Research Project with Weyerhaeuser Company,
W77-00735 1002 5C

Food Pathways in Regulated Lakes, (In Swedish),
W77-04746 1010 2H

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

The Aquatic Thermal Capsule,
W77-09486 1019 5C

An Energy Balance for Algal Populations in Light-Limiting Conditions,
W77-09609 1020 5C

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

Sludge Processing to Optimize Digestibility and Energy Production,
W77-11709 1023 5E

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

ENERGY CONSERVATION
The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

Sludge Incineration,
W77-08717 1018 5E

ENERGY CONVERSION
Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

Wastewater Plant Design Reduces Off-Site Energy Needs.
W77-00059 1001 5D

Highly Energy Efficient-Wilton Wastewater Treatment Plant,
W77-00579 1002 5D

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Wave Generator,
W77-00691 1002 8C

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

Wave Energy Machine,
W77-01194 1003 8C

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Water Requirements for Solar Energy,
W77-02122 1005 3E

Wastewater Plant Does Nicely Without Natural Gas, Thank You,
W77-02363 1005 5D

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Getting Water from the Sun,
W77-05937 1012 3F

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

Geothermal Power, The 'Sleeper' in the Energy Race,
W77-07296 1015 3E

Electric Power Generation from Geothermal Hot Water Deposits,
W77-07300 1015 8C

Geothermal Energy: Needed, Effective Heat Transfer Equipment,
W77-07301 1015 8G

Apparatus for Power Generation in Deep Seawater,
W77-08023 1016 8C

Mechanism for Tapping the Surf Energy,
W77-08026 1016 8C

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

ENERGY DEVELOPMENT
Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

ENERGY DISSAPATION
Wave Energy Machine,
W77-01194 1003 8C

ENERGY DISSIPATION
On The Fracture Properties of Snow,
W77-00083 1001 2C

Caloric Changes Along Pulp and Paper Mill Effluent Plumes,
W77-12066 1023 5B

ENERGY EQUATION
Minimizing the Waste Discharges from Water Treatment Plants,
W77-03455 1007 5D

Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

ENERGY FLUXES
Evaporative Cooling of a Partially-Wet and Transpiring Leaf-II. Simulated Effect of Variations in Environmental Conditions, Leaf Properties, and Surface Water Characteristics,
W77-03758 1008 2D

ENERGY LOSS
Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

Final Report of the Task Committee on Branching Conduits,
W77-11590 1023 8B

Some Basic Concepts on Flow in Branching Conduits,
W77-11591 1023 8B

ENERGY PRODUCTION
Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

ENERGY PRODUCTION (WASTES)
Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

ENERGY RECOVERY
Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

ENERGY RECOVERY (INDUSTRIAL)
Energy Recovery in Brewery Industry,
W77-10342 1021 5D

ENERGY-RELATED WATER DEMANDS
A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

ENERGY REORGANIZATION ACT OF 1974
Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

ENERGY REQUIREMENTS
Energy, Water, and the West,
W77-00542 1002 6D

Irrigation Well Efficiency,
W77-04292 1009 8B

ENERGY RESEARCH
Reclamation Research in the Seventies, Second Progress Report,
W77-07600 1015 8A

ENERGY RESOURCE EXTRACTION
Proceedings of: National Conference on Health, Environmental Effects, and Control Technology of Energy Use.
W77-02649 1006 5G

ENERGY RESOURCES
Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

The Present and Future of Coasts.
W77-04462 1009 2L

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Potential Power-Generating Stations on the Atlantic Continental Shelf,
W77-04935 1010 6G

Nature of Potential Oil Industry Operations on the Atlantic Continental Shelf,
W77-04936 1010 6G

Wind-Driven and Thermohaline Circulation Over the Continental Shelves,
W77-04937 1010 6G

Tidal Water Movements,
W77-04938 1010 2L

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

Fisheries and Renewable Resources of the Northwest Atlantic Shelf,
W77-04945 1010 6G

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Process Description and Adaptation Study,
W77-05379 1011 5G

ENERGY SOURCES

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

ENERGY TRANSFER

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

Getting Water from the Sun,
W77-05937 1012 3F

Laboratory Study of Unsteady Energy Transfer in Surface Layers of Stratified Water,
W77-06006 1012 2H

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Method and Apparatus for Obtaining Electrical Power from Sea Water,
W77-08032 1016 8C

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

Caloric Changes Along Pulp and Paper Mill Effluent Plumes,
W77-12066 1023 5B

Recovery of Energy from Fracture-Stimulated Geothermal Reservoirs,
W77-12680 1024 8E

Cyclical Energy Transfer Method and Apparatus,
W77-12697 1024 2F

ENGINEERING

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

A Consultant's View of PL 92-500.
W77-08958 1018 5G

Procedures for the Evaluation of Engineering Alternatives,
W77-11771 1023 6B

ENGINEERING EDUCATION

Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

Education and Traning in Water Resources Planning,
W77-01344 1003 6B

Water Treatment Plant Processes and Operations,
W77-06198 1013 5D

ENGINEERING PERSONNEL

Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

ENGINEERING STRUCTURES

Design Limits on Critical Float Emergence in a Tethered Float Breakwater,
W77-00899 1002 8C

Connecting Channel Between Two Different Water Levels,
W77-01207 1003 8C

Breakwater Construction,
W77-01221 1003 8B

Floating Breakwaters,
W77-01222 1003 8B

Method of Protecting a Pile Imbedded in Offshore Areas Having a Shifting Layer of MUD,
W77-01711 1004 8D

Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

Self-Regulating Tide Gate,
W77-01728 1004 8C

Water Gate,
W77-01729 1004 8C

Waterway Districts.
W77-03516 1007 6E

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

Floating Breakwater,
W77-08009 1016 8A

Tidewater Power System,
W77-08022 1016 8C

Apparatus for Power Generation in Deep Seawater,
W77-08023 1016 8C

Mechanism for Tapping the Surf Energy,
W77-08026 1016 8C

Post-Tensioned Sewer River Crossing.
W77-08552 1017 8E

Maps of Shore and Nearshore Structures, Shore and Bluffline Positions, the 100-Year Anticipated Recession Line and Shore Ownership,
W77-10506 1021 2J

Breakwater System,
W77-11009 1022 8B

ENGLAND

Medium Term Fluctuations of Rainfall in Southeastern England,
W77-00092 1001 2B

The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

Prediction of Future Nitrate Concentrations in Ground Water,
W77-04757 1010 5B

Long-Period Waves on a Natural Beach,
W77-05157 1011 2L

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

London's Stormwater Problem,
W77-06297 1013 5B

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

ENGLAND

Automatic Monitoring of Soil Moisture Conditions in a Hillslope Spur and Hollow,
W77-07146 1015 2G

Interconnection of Surface and Underground Water Resources in Southeast Durham,
W77-07149 1015 4B

The Age of Groundwater in the Lincolnshire Limestone, England and its Relevance to the Flow Mechanism,
W77-09107 1019 2F

Recharge to Bunter Sandstone Determined From Lysimeters,
W77-09108 1019 2F

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Computer Modelling of Regional Groundwater Systems in the Confined-Unconfined Flow Regime,
W77-10766 1021 2F

Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

Hysteretic Steady State Soil Water Profiles,
W77-11212 1022 2G

Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

ENGLAND (NORTHEAST COAST)

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

ENGLAND (UPPER CARBONIFEROUS)

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

ENGLAND (WALTON BACKWATERS)

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

ENGLISH CHANNEL

The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

ENGLISHTOWN FORMATION (NJ)

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

ENISEI GULF (KARA SEA)

Species Composition and Distribution of Ecological Complexes of Zooplankton in the Enisei Gulf,
W77-00399 1001 5C

ENO RIVER WATERSHED (NC)

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

ENTERIC BACTERIA

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Evaluation of Methods of Recovering Pathogenic Intestinal Microorganisms from Water, (In Russian),
W77-02244 1005 5F

Effect of Polyvinyl Chloride on Water Microflora, (In Russian),
W77-02386 1005 5C

Computerized Scheme for the Identification of Aeromonads and Members of the Family Enterobacteriaceae,
W77-02758 1006 5A

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

Enteric Virus Removal from Septic Tank Effluent by Pilot Scale Soil Absorption Systems,
W77-04389 1009 5D

Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Bacterial and Viral Pathogens Associated with Land Application of Organic Wastes,
W77-12445 1024 5E

Elimination of Enteroviruses During Treatment of Drinking Water by Coagulation - Flocculation - Filtration, (In French),
W77-12944 1024 5F

Lipolytic Enterobacteria of the Odessa Bay Littoral Zone, (In Ukranian),
W77-12974 1024 5C

ENTERIC VIRUSES

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

Field Monitoring Techniques and Data Analysis,
W77-03150 1007 5A

The Use of Blue-Green Algal Viruses as Indicators of the Efficiency of Water Treatment in Elimination of Human Enteric Viruses,
W77-05107 1011 5F

ENTEROBACTER

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

ENTEROBACTER AEROGENES

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

ENTEROBACTERIACEAE

Computerized Scheme for the Identification of Aeromonads and Members of the Family Enterobacteriaceae,
W77-02758 1006 5A

ENTEROCOCCI

Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

ENTEROMORPHA COMPRESSA

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

ENTEROMORPHA SPP.

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

ENTEROVIRUS

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

ENTEROVIRUSES

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Examination of Sewage Sludge for Enteroviruses, Volume 2,
W77-07615 1016 5B

ENTHNOBOTANY
Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

ENTIAT RIVER
Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

ENTRAINMENT
Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

Effects of Thermal Shock on Larval Estuarine Fish-Ecological Implications with Respect to Entrainment in Power Plant Cooling Systems,
W77-04556 1009 5C

Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

Effects of Power-Plant Entrainment Temperatures on Oxygen Consumption Patterns of Amphipods and Grass Shrimp,
W77-05553 1011 5C

Effects of Entrainment Through Oconee Nuclear Station on Carbon-14 Assimilation Rates of Phytoplankton,
W77-05590 1011 5C

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

Entrainment of Estuarine Zooplankton into a Mid-Atlantic Power Plant: Delayed Effects,
W77-05592 1011 5C

Assessment of Power-Plant Effects on Zooplankton in the Near Field,
W77-05593 1011 5C

Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

An Evaluation of the Impingement of Fishes at Four Duke Power Company Steam-Generating Facilities,
W77-05595 1011 5C

Prelimnary Assessment of Larval Fish Entrainment, Colbert Steam Plant, Tennessee River,
W77-05596 1011 5C

The Incidence and Effect of Once-Through Cooling on Young-of-the-Year Fishes at Long Point Bay, Lake Erie: A Preliminary Assessment,
W77-05597 1011 5C

Survival of Juvenile Fishes Receiving Thermal and Mechanical Stresses in a Simulated Power-Plant Condenser,
W77-05598 1011 5C

Entrainment Velocity in Natural Stratified Vertical Shear Flow,
W77-09946 1020 2L

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Power Plants and Plankton,
W77-12039 1023 5C

ENTRAINMENT VELOCITY
Entrainment Velocity in Natural Stratified Vertical Shear Flow,
W77-09946 1020 2L

ENTROPHICATION
Biogeochemical Development of the Lake of Geneva (Switzerland) from 1957 to 1973: Part III, (In French),
W77-03144 1007 5C

ENVIRONEMTAL EFFECTS
The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

ENVIRONMENT
Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

The Budding Environmental Clean-Up (A Viewpoint): Part I. Pollution and Environment,
W77-00194 1001 5G

Hygienic Problems of Environmental Protection in Connection with the Further Development of Siberia and the Far East, (In Russian),
W77-00349 1001 5G

Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

Review of PCB (Polychlorinated Biphenyls) in the Environment.
W77-00463 1001 5B

Environmental Considerations in Expanding Agricultural Production,
W77-00470 1001 6G

EPA and Agriculture: Establishing a Partnership,
W77-00472 1001 5G

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

Implementation of Multiple Objective Planning by the Soil Conservation Service,
W77-01155 1003 6B

Evaluating Environmental Quality Management Programmes in Which Dischargers are Grouped,
W77-01170 1003 5G

Ecosystem Models and Environmental Policy,
W77-01172 1003 6G

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

Phytoplankton of the Laguna Salada and Adjacent Area, Veracrux (September, 1973), (In Spanish),
W77-02859 1006 5C

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W77-04413 1009 5C

Cleaner: The Lake George Model,
W77-04495 1009 6G

The Delaware Estuary,
W77-04497 1009 6G

Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

The Public Trust Doctrine: A Viable Approach to International Environmental Protection,
W77-04853 1010 6E

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

Decision-Making for Environmental Resources Management,
W77-07542 1015 6G

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

Environmental Assessment: The Ecological Dimension,
W77-08034 1016 6G

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W77-08408 1017 7B

ENVIRONMENT

An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

Application of EREP, LANDSAT and Aircraft Image Data to Environmental Problems Related to Coal Mining,
W77-08429 1017 5A

Remote Sensing Applications in the Inventory and Analysis of Environmental Problems,
W77-08438 1017 5A

Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

Collection, Treatment and Reutilization of Waste Waters in Arid Zones of the Middle East,
W77-10591 1021 5D

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Land and Water Resources for Environmental Research on the Oak Ridge Reservation,
W77-11130 1022 6G

ENVIRONMENT EFFECTS

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

ENVIRONMENT EVALUATION

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

ENVIRONMENT IMPACT STUDIES

Environmental Impact of Stream Channelization,
W77-00375 1001 6G

ENVIRONMENTAL ASSESSMENT

Environmental Assessment,
W77-05381 1011 6G

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

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W77-06793 1014 6G

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W77-06796 1014 6G

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W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

Program Development Plan. Environmental Assessment of the Alaskan Continental Shelf,
W77-06878 1014 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

ENVIRONMENTAL ASSIMILATIVE CAPACITY

The Limits of Cost-Benefit Analysis as a Guide to Environmental Policy,
W77-04561 1009 5G

ENVIRONMENTAL CONCERN

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Coastal Sand Dunes,
W77-05405 1011 2L

Scenery for Sale,
W77-05406 1011 6G

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

ENVIRONMENTAL CONDITIONS

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

ENVIRONMENTAL CONTAMINANTS

Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

ENVIRONMENTAL CONTROL

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

EPA and Agriculture: Establishing a Partnership,
W77-00472 1001 5G

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Panel 'E' - Resource Extraction,
W77-02056 1004 6G

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Environmental Protection in Mexico and Canada,
W77-03698 1008 6E

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Preference Models of Environmental Impact,
W77-04020 1008 6G

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

The Wetlands Dilemma: A Solution,
W77-04477 1009 6G

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

Assessing the Visual Quality of the Coastal Zone,
W77-04485 1009 6B

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

The Limits of Cost-Benefit Analysis as a Guide to Environmental Policy,
W77-04561 1009 5G

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Environmental Management '76. An Overview of Federal and Provincial Activities - Environment Canada, The Big Clean-Up Goes On,
W77-05502 1011 5G

Industry and the Environment,
W77-05508 1011 5G

Industrial Water and Air Pollution Control,
W77-05512 1011 5D

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

People and the Sound. Water Management.
W77-06594 1013 6B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

Literature on Environmental Protection, Management and Hygiene in Sweden 1952-1971: Bibliography and Analysis, (In Swedish),
W77-07586 1015 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Environmental Policy Choice Under Uncertainty,
W77-08004 1016 6G

The Current State of Environmental Policy,
W77-08005 1016 6G

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

Progress in MHI's Integrated Techniques for Environmental Protection,
W77-08533 1017 5D

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Future Environmental Quality Management Using Models,
W77-09155 1019 5G

An Environmental Residual Allocation Model,
W77-09179 1019 5B

Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

The Environmental Quality Monitoring Report.
W77-09231 1019 5G

Cross Canada Report,
W77-09923 1020 5G

An Investigation of the Particulate Phase of Acid Precipitation,
W77-10178 1021 2B

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

ENVIRONMENTAL CONTROL
***ENVIRONMENTAL ENGINEERING**

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

ENVIRONMENTAL COST

Urban Planning to Minimize Environmental Impact,
W77-09377 1019 6B

ENVIRONMENTAL DAMAGES

Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

ENVIRONMENTAL DEVELOPMENT

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

ENVIRONMENTAL DISPOSAL MECHANISMS
Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

ENVIRONMENTAL DISTRIBUTION
PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

ENVIRONMENTAL EFFECT
Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

Feeding, Starvation and Weight Changes of Early Fish Larvae,
W77-05849 1012 5C

ENVIRONMENTAL EFFECTS
Environmental Effects of Sludge Disposal in Sanitary Landfills,
W77-00030 1001 5C

Environmental Effects of Alternative Energy Developments in the Northern Great Plains,
W77-00115 1001 6G

Substitute Chemical Program: Initial Scientific and Minieconomic Review of Malathion.
W77-00192 1001 5C

Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

Environmental Impact of Stream Channelization,
W77-00375 1001 6G

Environmental Factors in Producing Supplemental Fuels,
W77-00390 1001 6G

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

Environmental Considerations in Expanding Agricultural Production,
W77-00470 1001 6G

Species Diversity of Freshwater Plankton Agglomerations, (In Polish),
W77-00495 1001 7B

On the Oceanographic Conditions of Oyster Farming Area Near Chungmu, (In Korean),
W77-00498 1001 2L

Fecundity of Nelmuschka Coregonus Lavaretus Nelmuschka Pravdin and Its Ecological Background, (In Russian),
W77-00518 1001 2H

Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

Planning Level and Program Impact Statements under the National Environmental Policy Act: A Definitional Approach,
W77-00705 1002 6G

Effects of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariphyceae). II. Effect of Oxygen,
W77-00721 1002 5C

The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Diversity of Marine Invertebrates in a Thermal Effluent,
W77-00883 1002 5C

Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

Draft Environmental Statement: Project Skywater A Program of Research in Precipitation Management, Volume I of II.
W77-01187 1003 6G

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

The Effect of Environmental Factors on the Growth of a Natural Pasture,
W77-01285 1003 2I

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

Environmental Factors of Human Leukemias, (In Polish),
W77-01562 1004 5C

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Water Pollution Control Act of 1972, Environmental Impact Assessment, Columbia River.
W77-01955 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
W77-01956 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Housatonic River.
W77-01957 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Guadalupe-San Antonio River Basin,
W77-01962 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River Estuary (Florida),
W77-01964 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Gulf of Alaska.
W77-01966 1004 5G

Water Quality Analysis, The Potomac River.
W77-01968 1004 5G

Environmental Impact Assessment, Water Quality Analysis, S. California Bight.
W77-01969 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Hawaii.
W77-01970 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Puerto Rico.
W77-01971 1004 5G

Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River (Maine).
W77-01977 1004 5G

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Panel 'E' - Resource Extraction,
W77-02056 1004 6G

Substantive Rights Under the National Environmental Policy Act,
W77-02067 1004 6E

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Economic and Environmental Impacts of Agricultural Land Drainage in Ontario,
W77-02425 1005 4A

Ecological Modeling and Estimation of Stress,
W77-02622 1006 5C

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

The Toxicity of Selected Chemicals Used in Power Generating Stations to Hawaiian Fishes,
W77-02666 1006 5C

Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Environmental Impact of Chemicals,
W77-02836 1006 5G

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

The Potential Trace Metal Contamination of Water Resources through the Disposal of Fly Ash,
W77-02873 1006 5B

1976 Environmental Conditions Relative to Shrimp Production in Coastal Louisiana,
W77-02876 1006 5C

The Location of Industrial Water Users and Air Pollution: An Overlooked Relationship,
W77-02877 1006 5B

Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

Recent Progress on the Control of Ovarian Development and Induced Spawning of the Grey Mullet (Mugil Cephalus L.),
W77-02882 1006 5C

Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Barataria Basin: Salinity Changes and Oyster Distribution,
W77-02884 1006 5C

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

Heteromorphic Development of Aedine Mosquitoes Reared at Abnormal Temperatures,
W77-03047 1006 5C

Relation of Water Temperature to Flexibacter Columnaris Infection in Steelhead Trout (Salmo Gairdneri) Coho (Oncorhynchus Kisutch) and Chinook (O. Tshawytscha) Salmon,
W77-03048 1006 5C

Temperature-Induced Changes in Acute Toxicity of Zinc to Atlantic Salmon (Salmo Salar),
W77-03049 1006 5C

Effects of Water Temperature and Housing Conditions Upon the Aggressive Behavior of the Lobster Homarus Americanus,
W77-03050 1006 5C

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

Thermal Effects on Aquatic Organisms, Annotated Bibliography of the 1975 Literature.
W77-03640 1008 5C

The Influence of Temperature on the Bioenergetics of the Carnivorous Stonefly Nymph, Acroneuria California Banks (Plecoptera: Perlidae),
W77-03641 1008 5C

Partitioning and Uptake of Pesticides in Biological Systems,
W77-03659 1008 5C

Chlorinated Hydrocarbons in Coastal Marine Ecosystems,
W77-03661 1008 5C

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

An Oil Slick Sampling System,
W77-03909 1008 5A

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
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Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Forecastings a Line of Investigations of Member Countries of the Council of Mutual Economic Assistance in the Area of Environmental Hygiene, (In Russian),
W77-04016 1008 5G

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

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The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

The Present and Future of Coasts.
W77-04462 1009 2L

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Coastal Environmental Impact Assessment: Lessons from Oil Spills,
W77-04472 1009 6G

People and the Sea: Future Impacts and Opportunities,
W77-04474 1009 6G

Thermal Pollution in the Los Angeles-Long Beach Harbor: Consequences and Alternatives,
W77-04476 1009 5B

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

Education in Land Use Decision Making,
W77-04486 1009 6B

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

Effects of Radiation on Aquatic Population
W77-04509 1009 5C

The Distribution of Transuranic Elements in a Freshwater Pond Ecosystem,
W77-04510 1009 5C

The Dosimetric Implications of Releases to the Aquatic Environment from the Nuclear Power Industry,
W77-04511 1009 5C

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

Plutonium-237 and -246: Their Production and Use as Gamma Tracers in Research on Plutonium Kinetics in an Aquatic Consumer,
W77-04513 1009 5C

A Systems Analysis Model for Calculating Radionuclide Transport Between Receiving Waters and Bottom Sediments,
W77-04516 1009 5B

Americium in the Marine Environment-Relationships to Plutonium,
W77-04517 1009 5C

The Behavior of Plutonium Nuclides in the Irish Sea,
W77-04518 1009 5C

The Behavior of Plutonium in Aquatic Ecosystems: A Summary of Studies on the Great Lakes,
W77-04519 1009 5C

Plutonium Foodchains,
W77-04520 1009 5C

Transuranic Studies in the Marine Environment,
W77-04521 1009 5C

Laboratory Rearing of Common Sole (Solea Solea L.) Under Controlled Conditions at High Density with Low Mortality,
W77-04528 1009 5C

The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Changes in Behaviour During Starvation of Herring and Plaice Larvae,
W77-04540 1009 5C

Effect of Prey Distribution and Density on the Searching and Feeding Behavior of Larval Anchovy Engraulis Mordax Girard,
W77-04541 1009 5C

Vital Activity Parameters as Related to the Early Life History of Larval and Post-Larval Lake Whitefish (Coregonus Clupeaformis),
W77-04542 1009 5C

Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

Effects of Reduced Oxygen on Embryos and Larvae of the White Sucker, Coho Salmon, Brook Trout, and Walleye,
W77-04547 1009 5C

Temperature Tolerance of Early Development Stages of Dover Sole, Solea Solea (L.),
W77-04549 1009 5C

Effects of Constant and Rising Temperatures on Survival and Development Rates of Embryonic and Larval Yellow Perch, Perca Flavescens (Mitchill),
W77-04550 1009 5C

Effect of Parental Temperature Experience on Thermal Tolerance of Eggs of Menidia Audens,
W77-04551 1009 5C

Effect of Hydrogen Sulfide on Development and Survival of Eight Freshwater Fish Species,
W77-04552 1009 5C

Resistance of Plaice Eggs to Mechanical Stress and Light,
W77-04553 1009 5C

Effects of Cadmium on Development and Survival of Herring Eggs,
W77-04554 1009 5C

Survival of Australian Anchovy (Engraulis Australis) Eggs and Larvae in a Heat Trap,
W77-04555 1009 5C

Effects of Thermal Shock on Larval Estuarine Fish-Ecological Implications with Respect to Entrainment in Power Plant Cooling Systems,
W77-04556 1009 5C

Year-Class Abundance of Pelagophilic Summer-Spawning Fishes of the Black Sea and Factors Determining It, (In Russian),
W77-04579 1009 2L

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

Waste Disposal,
W77-04847 1010 5E

Jurisdiction and Grounds for Denial by State and Federal Agencies of Dredge and Fill Operations,
W77-04923 1010 5G

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

The (Coastal Plains Regional Center) Deepwater Terminal Study,
W77-05030 1010 6B

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

A Review and Analysis of Environmental Impact Assessment Methodologies,
W77-05296 1011 6G

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Civil Engineering Considerations,
W77-05380 1011 8A

Environmental Assessment,
W77-05381 1011 6G

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

The Marshes,
W77-05400 1011 2L

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-05490 1011 5G

Power Plants, Chlorine and Estuaries,
W77-05491 1011 5C

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
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W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Thermal Ecology II.
W77-05541 1011 5C

The Power Park Concept: Ameliorating Man's Disorder with Nature's Order,
W77-05542 1011 5C

Factors Influencing Thermal Tolerances of Individual Organisms,
W77-05543 1011 5C

Thermal Alteration and the Enhancement of Species Populations,
W77-05544 1011 5C

Heated Waste-Water Effects on Aquatic Ecosystems,
W77-05545 1011 5C

Potential Influence of Thermal Effluents on the Production and Water-Use Efficiency of Mangrove Species in South Florida,
W77-05546 1011 5C

Rooting and Growth of Red Mangrove Seedlings from Thermally Stressed Trees,
W77-05547 1011 5C

The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

Effects of a Thermal Effluent on the Reproduction of the American Oyster,
W77-05549 1011 5C

Effect of Temperature on Growth, Mortality, Reproduction, and Production of Adult Snails,
W77-05550 1011 5C

Effects of Constant and Cyclic Temperature Regimes on the Pelagic Larval Development of a Brachyuran Crab,
W77-05551 1011 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

Effects of Power-Plant Entrainment Temperatures on Oxygen Consumption Patterns of Amphipods and Grass Shrimp,
W77-05553 1011 5C

Growth of Salmonid Fishes from Heated and Unheated Areas of Lake Michigan-Measured by RNA-DNA Ratios,
W77-05554 1011 5C

The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Temperature as a Growth Accelerator in the Spot (Teleost: Sciaenidae),
W77-05556 1011 5C

Growth Rates of Subadult Largemouth Bass at 24 to 35.5C,
W77-05557 1011 5C

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Thermal Tolerance of Adult Asiatic Clam,
W77-05559 1011 5C

The Effect of Acclimation on the Temperature Tolerance of Young Muskellunge Fry,
W77-05560 1011 5C

Thermal Tolerance of Stream Cyprinid Minnows,
W77-05561 1011 5C

Thermal Tolerance and Respiratory Movement of Bluegill from two Populations Tested at Different Levels of Acclimation Temperature and Water Hardness,
W77-05562 1011 5C

Some Relationships of Upper Thermal Tolerances to Preference and Avoidance Responses of the Bluegill,
W77-05563 1011 5C

Further Studies of Cold-Shock Effects on Susceptibility of Young Channel Catfish to Predation,
W77-05564 1011 5C

Acute Cold-Shock Resistance of Gizzard Shad,
W77-05565 1011 5C

The Effect of Cold Shock on the Vulnerability of Young Bluegill to Predation,
W77-05566 1011 5C

Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

Behavioral Thermal Regulation by Rainbow Trout in a Temperature Gradient,
W77-05568 1011 5C

Behavioral Thermoregulation by Bluegill Exposed to Various Rates of Temperature Change,
W77-05569 1011 5C

Daily Ration, Temperature Selection, and Activity of Bluegill,
W77-05570 1011 5C

Thermal Preferenda and Behavioral Thermoregulation in Three Centrarchid Fishes,
W77-05571 1011 5C

Temperature Preference and Movement of Fish in Relation to a Long, Heated Discharge Channel,
W77-05572 1011 5C

Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

Influence of Thermal Loading on the Ecology of Intertidal Algae,
W77-05574 1011 5C

Relationship Between Thermal Loading and Parasitism in the Mosquitofish,
W77-05575 1011 5C

Effects of a Thermal Effluent on the Ostracods of Par Pond, South Carolina,
W77-05576 1011 5C

Seasonal Distribution of a Podocopid Ostracod in a Thermally Altered Area of Tampa Bay, Florida,
W77-05577 1011 5C

Chronic In Situ Exposure of the Bay Scallop to Power-Plant Effluents,
W77-05578 1011 5C

Effects of the Palisades Nuclear Power Plant on Lake Michigan,
W77-05579 1011 5C

Effects of Power-Plant Operation on the Biota of a Thermal Discharge Channel,
W77-05580 1011 5C

Seasonal Abundance, Biomass, Diversity, and Trophic Structure of Fish in a Salt-Marsh Tidal Creek Affected by a Coastal Power Plant,
W77-05581 1011 5C

Fish Diversity in Adjacent Ambient, Thermal, and Post-Thermal Freshwater Streams,
W77-05582 1011 5C

Distribution and Abundance of Fish Populations in the Middle Wabash River,
W77-05583 1011 5C

Seasonal Distribution and Abundance of Ohio River Fishes at the J. M. Stuart Electric Generating Station,
W77-05584 1011 5C

The Macrobenthic Community of a Thermally Altered Area of Tampa Bay, Florida,
W77-05585 1011 5C

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Thermal Effluent in Coastal Rivers: A Contribution to the Location of Power Plants,
W77-05587 1011 5C

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

The Connecticut River Ecological Study: A Synopsis,
W77-05589 1011 5C

Effects of Entrainment Through Oconee Nuclear Station on Carbon-14 Assimilation Rates of Phytoplankton,
W77-05590 1011 5C

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

Entrainment of Estuarine Zooplankton into a Mid-Atlantic Power Plant: Delayed Effects,
W77-05592 1011 5C

Assessment of Power-Plant Effects on Zooplankton in the Near Field,
W77-05593 1011 5C

Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

An Evaluation of the Impingement of Fishes at Four Duke Power Company Steam-Generating Facilities,
W77-05595 1011 5C

Prelimnary Assessment of Larval Fish Entrainment, Colbert Steam Plant, Tennessee River,
W77-05596 1011 5C

The Incidence and Effect of Once-Through Cooling on Young-of-the-Year Fishes at Long Point Bay, Lake Erie: A Preliminary Assessment,
W77-05597 1011 5C

Survival of Juvenile Fishes Receiving Thermal and Mechanical Stresses in a Simulated Power-Plant Condenser,
W77-05598 1011 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

The Environment of South Florida, A Summary Report,
W77-05738 1012 6G

Larval Mortality and Subsequent Year-Class Strength in the Plaice (Pleuronectes Platessa L.),
W77-05823 1012 2L

Seasonal Changes in Dimensions and Viability of the Developing Eggs of the Cornish Pilchard (Sardina Pilchardus Walbaum) Off Plymouth,
W77-05825 1012 2L

Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

The Possible Density-Dependence of Larval Mortality and Adult Mortality in Fishes,
W77-05829 1012 2L

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

The Distribution and Long Term Changes in Abundance of Larval Ammodytes Marinus (Raitt) in the North Sea,
W77-05835 1012 2L

Vertical and Seasonal Variability of Fish Eggs and Larvae at Ocean Weather Station 'India',
W77-05840 1012 2L

The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Environmental Impacts of Land use Change,
W77-05922 1012 6G

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Modest Techniques.
W77-06237 1013 6G

Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

Polychlorinated Biphenyls.
W77-06554 1013 5C

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Optimal Oil Tanker Size with Regard to Environmental Impact of Oil Spills,
W77-06702 1014 5G

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

The Measurement of Temperature Tolerance: Verification of an Index,
W77-06764 1014 5C

Environmental Factors Affecting Survival and Growth of Vibrio Parahaemolyticus. A Review,
W77-06765 1014 5C

Growth and Movement of Fish in the Vicinity of a Thermal Discharge,
W77-06766 1014 5C

Temperature Relations of Puget Sound Thaids in Reference to Their Intertidal Distribution,
W77-06767 1014 5C

Seasonal changes in the Respiration of Pumpkinseed, Lepomis Gibbosus, Correlated with Temperature, Day Length, and Stage of Reproductive Development,
W77-06768 1014 5C

Effect of Two Rearing Conditions on Growth and Body Composition in Carp (Cyprinus Carpio L), (Influence de Deux Modes d'Elevage sur la Croissance et la Composition Corporelle de la Carpe Commune),
W77-06769 1014 5C

The Algal Flora in the Thermal Baths of Montegrotto Terme (Padua). Its Distribution Over One-Year Period,
W77-06770 1014 5C

Heat Resistance of Gametes of Marine Invertebrates in Relation to Temperature Conditions Under Which the Species Exist,
W77-06771 1014 5C

Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Dispersal and Dispersion of Pond Snails in an Experimental Environment Varying to Three Factors, Singly and in Combination,
W77-06773 1014 5C

Health Effects of Multipurpose Use of Water,
W77-06775 1014 5C

Long-Term Lead Accumulation in Abalone (Haliotis Spp.) Fed on Lead-Treated Brown Algae (Egregia Laevigata),
W77-06776 1014 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

Median Tolerance Limits of Some Chemicals to the Fresh Water Fish Cyprinus-Carpio,
W77-06780 1014 5C

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-06782 1014 5C

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

A Preliminary Survey of Mercury in Fish from Bombay and Thana Environment,
W77-06785 1014 5C

Changes in the Structure of Phytoplankton During the First Years of Existence of the Derdap Storage Reservoir, (In Serbo-Croatian),
W77-06786 1014 2H

Laboratory Studies on the Effect of Metals on Oxygen Uptake by Sewage Sludge in Brackish Water,
W77-06788 1014 5C

Respiratory Response of Cunners to Silver,
W77-06789 1014 5C

Heavy Metals in Macroinvertebrates and Fish from the Lower Medway Estuary, Kent,
W77-06790 1014 5C

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines.
W77-06850 1014 5A

The New York Bight Project - 1975; Stony Brook, Long Island, New York.
W77-06876 1014 5G

Guidelines for the Preparation of Environmental Reports for Fossil-Fueled Steam Electric Generating Stations,
W77-06918 1014 6G

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

State Information Needs Related to Onshore and Nearshore Effects of OCS Petroleum Development,
W77-06934 1014 6G

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Coastal Facility Guidelines: A Methodology for Development with Environmental Case Studies on Marinas and Power Plants,
W77-06936 1014 6G

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

Effects of Combination of Temperature and Hydrostatic Pressure on Asterias rubens,
W77-07308 1015 5C

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

The Responses of Some Estuarine Organisms to Suspended Solids,
W77-07353 1015 8D

The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W77-07380 1015 5C

Aquatic Organism Contamination by Mercury Residues in the Coatzacoalcos River Estuary, Mexico,
W77-07394 1015 5C

Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

Comparative Ecophysiology of Gammarids (Crustacea: Amphipoda) From Marine, Brackish and Fresh-Water Habitats, Exposed to the Influence of Salinity-Temperature Combinations. I. Effect on Survival,
W77-07397 1015 5C

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

The Structure of Phytoplankton Associations in Lake Tahoe (California-Nevada),
W77-07473 1015 5C

Literature on Environmental Protection, Management and Hygiene in Sweden 1952-1971: Bibliography and Analysis, (In Swedish),
W77-07586 1015 6G

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Waste Management for the Coastal Zone: Concepts for the Assessment of Ocean Outfalls,
W77-07747 1016 5E

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

Environmental Policy Choice Under Uncertainty,
W77-08004 1016 6G

U.S. Environmental Protection Agency Environmental Research Outlook FY 1976 Through 1980 (Report to Congress).
W77-08120 1017 6G

Belford V. City of New Haven (Individual's Challenge to City's Dredging and Construction),
W77-08143 1017 6E

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

Determination of Water-Resources Policies in Arid Lands,
W77-08453 1017 6B

Recreational Water Resources Problems.
W77-08711 1018 6B

Sludge Incineration,
W77-08717 1018 5E

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

A Conceptual Representation of the New York Bight Ecosystem,
W77-08900 1018 5B

Analysis of Pollution from Marine Engines and Effects on the Environment.
W77-08902 1018 5B

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

An Examination of Some Physical and Biological Impacts of Dredging in Estuaries,
W77-08918 1018 5C

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W77-08919 1018 5B

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

A Consultant's View of PL 92-500.
W77-08958 1018 5G

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

Analyses of Native Water, Bed Material, and Elutriate Samples of Major Louisiana Water Waterways, 1975,
W77-09084 1018 5A

Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Environmental Contaminants Inventory Study No. 3, the Production, Use and Distribution of Lead in Canada,
W77-09221 1019 5B

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

NOAA Ship Delaware II Cruise 74-2 Report of May 13-21, 1974, Survey of Deepwater Dumpsite 106,
W77-09245 1019 5B

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

Urban Planning to Minimize Environmental Impact,
W77-09377 1019 6B

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Potential Environmental Impacts from the Production of Synthetic Fuels from Coal.
W77-09458 1019 5B

Siting of Major Energy Facilities.
W77-09459 1019 6G

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

New Roles For the Old Dam Builders,
W77-09552 1019 6F

What Are We Doing About Oil Spill,
W77-09553 1019 5G

Pitman v Washington Suburban Sanitary Commission (Environmental Effects Reports Only Required for State Actions).
W77-09573 1019 6E

Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

An Optimal State Water Law: Fixed Water Rights and Flexible Market Prices,
W77-09587 1019 6E

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Water Resources Assessment Methodology (WRAM)--Impact Assessment and Alternative Evaluation,
W77-09985 1020 6G

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Environmental Sciences.
W77-10098 1020 6G

Lake Sibaya - A Land-Locked Estuary,
W77-10099 1020 2H

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Impacts of Nuclear Releases into the Aquatic Environment.
W77-10384 1021 5C

The Radiological Consequences of Releases from Nuclear Facilities to the Aquatic Environment,
W77-10385 1021 5C

Radiological Impacts of Releases from Nuclear Facilities into Aquatic Environments-USA Views,
W77-10386 1021 5B

Etude de L'influence du Cadmium Stable sur le Transfert du Zinx-65 en Ecosysteme Irrigue par Submersion (Riziere Irriguee), (Study of the Influence of Stable Cadmium on the Transfer of Zinc-65 in an Ecosystem Irrigated by Submersion (Irrigated Rice Field),
W77-10387 1021 5C

Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

Behaviour of Caesium-137 in the Marine Environment,
W77-10389 1021 5C

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

A Trace Element Study in the Thames Estuary,
W77-10391 1021 5C

Environmental Behaviour of the Binuclear Oxygen-Bridged Nitratonitrosylruthenium Complex,
W77-10392 1021 5C

Le Transfert du Zinc-65 de Sediments a des Larves de Chironomides et a un Poisson D'eau Douce et L'effet du Cadmium sur ce Transfert, (Transfer of Zinc-65 from Sediments to Chironomid Larvae and to a Freshwater Fish and the Effect of Cadmium on Transfer),
W77-10393 1021 5C

The Behaviour of SR90 and CS137 in the Waters of the Baltic Sea,
W77-10394 1021 5B

Plutonium Isotopes in Aquatic Foodchains in the Baltic Sea,
W77-10395 1021 5C

Experimental Studies on Plutonium Kinetics in Marine Biota,
W77-10396 1021 5B

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

Some Investigations into the Behavior of Plutonium in the Marine Environment,
W77-10398 1021 5C

Plutonium in the Aquatic Environment Around the Rocky Flats Facility,
W77-10399 1021 5B

The Behaviour of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, I. Biological Transport, Seasonal Cycling, and Residence Times in the Water Column,
W77-10400 1021 5B

The Behavior of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, II. Patterns of Deposition in the Sediments,
W77-10401 1021 5B

Consequences du Deplacement des Sediments sur la Dispersion des Radionucleides, (The Effect of Sediment Displacement on the Dispersal of Radionuclides),
W77-10402 1021 5B

Behavior of Discharged Radionuclides from Fuel Reprocessing Operations in the Aquatic Environment of Bombay Harbour Bay,
W77-10403 1021 5C

Radiocaesium Dynamics in a Contaminated Floodplain Ecosystem in the Southeastern United States,
W77-10406 1021 5C

Uptake of Cobalt-60 From Sea Water and from Labelled Food By the Common Shrimp Crangon Crangon (L),
W77-10407 1021 5C

Health Criteria for Estimating Acceptable Contamination of Coastal Waters By Radionuclides,
W77-10408 1021 5B

Dose Estimation and Prediction of Radiation Effects on Aquatic Biota Resulting from Radioactive Releases from the Nuclear Fuel Cycle,
W77-10409 1021 5C

Assessment of Doses in the Environment for Liquid Releases from Nuclear Power Reactors,
W77-10411 1021 5C

An Analysis of Criteria for Determining the Extent of Permissible Radioactive Waste Disposal from Nuclear Power Stations into River Systems,
W77-10413 1021 5C

A System of Radiation Monitoring, and Methods and Equipment for Measuring Water of Low Specific Activity,
W77-10414 1021 5B

Radiological Effects of a Nuclear Power Plant on a River System, as Demonstrated by the Gundremmingen BWR on the Danube,
W77-10415 1021 5C

The Fish/Water Accumulation Factor-An Important Parameter for Determining the Environmental Capacity of Surface Waters,
W77-10416 1021 5B

Dredge River Channel: Naval Submarine Base, New London, Groton, Connecticut (Final Supplement to Final Environmental Impact Statement).
W77-10454 1021 6G

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

Shore Stability and Beach and Bluff Protection Methods for the Illinois Shore of Lake Michigan.
W77-10502 1021 2J

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-10729 1021 5C

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Louisiana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Introduction: Rationale, Objectives and Logistics,
W77-10894 1022 2L

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

The Nearshore Benthos,
W77-10901 1022 2L

Colville River Delta Fisheries Research,
W77-10902 1022 2L

A Summary of Observations of Birds at Oliktok Point and Notes on Birds Observed Along the Colville River--Summer 1971,
W77-10903 1022 2L

Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Ct. First Year's Studies July 1974 - July 1975.
W77-10906 1022 6G

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

National Environmental Policy: Coordination or Confusion,
W77-10927 1022 6E

Review of PCB Levels in the Environment,
W77-10935 1022 5B

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Field Studies on Marine Life Inhabiting Areas of Chronic Low Level Exposure to Petroleum,
W77-11033 1022 5C

Impact of the Marsh Buggy on the Wetlands,
W77-11035 1022 4C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

Human Induced Stress on the Caucasian Coast of the Black Sea,
W77-11040 1022 4D

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

Report of a Workshop on the Impact of Thermal Power Plant Cooling Systems on Aquatic Environments, Vol. I. Working Group Results.
W77-11123 1022 5C

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W77-11132 1022 5C

Further Investigations of Plutonium in Aquatic Biota of the Great Miami River Watershed Including the Canal and Ponds in Miamisburg, Ohio,
W77-11133 1022 5C

Dispersal of Plutonium from an Effluent Pulse in the Great Miami River,
W77-11134 1022 5C

Biological Utilization and Regeneration of Silicon in Lake Michigan,
W77-11139 1022 5C

Seasonal Development of Phytoplankton Populations in Offshore Lake Michigan in 1975,
W77-11141 1022 5C

Vertical Distribution, Composition, and Abundance of Crustacean Zooplankton in the Offshore Waters of Lake Michigan,
W77-11142 1022 5C

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

Thermal Discharge Residence by Lake Michigan Salmonids,
W77-11145 1022 5C

Plume Residence and Toxic Material Accumulation,
W77-11146 1022 5C

Summary of Recaptures of Fish Tagged at Two Power Plants Between 1972 and 1974,
W77-11147 1022 5C

Temperature Selection and Avoidance Behavior of Salmonids,
W77-11148 1022 5C

Body Temperature Change in Live and Dead Gizzard Shad, Dorosoma Cepedianum,
W77-11149 1022 5C

Phytoplankton and Nutrients Near the Zion Nuclear Plant During Upwelling,
W77-11150 1022 5C

Law At Sea,
W77-11175 1022 6E

The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

Resources and Land Investigations (RALI) Program.
W77-11368 1022 7C

United States V Joseph G Moretti, Inc (Court Approved Compromise for Restoration of Area Damaged by Development).
W77-11457 1022 6E

Cold Shock to Aquatic Organisms: Guidance for Power-Plant Siting, Design, and Operation,
W77-11502 1023 5C

Effects of Stable Chlorine-Containing Organics on Aquatic Environments,
W77-11503 1023 5C

The Accumulation of Mercury by the Thornback Ray, Raja Clavata L.,
W77-11507 1023 5C

The Accumulation of Mercury from Food by the Plaice, Pleuronectes Platessa L.,
W77-11508 1023 5C

Methylmercury in the Environment: A Review of Current Understanding,
W77-11516 1023 5C

Polyamine Synthesis in Liver and Kidney of Flounder in Response to Methylmercury,
W77-11518 1023 5C

Trace Elements in Acartia Clausi from Elefsis Bay of the Upper Saronikos Gulf, Greece,
W77-11521 1023 5C

Effect of Tetramethyl Lead on Freshwater Green Algae,
W77-11522 1023 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11525 1023 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-11526 1023 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

Distribution of Cadmium and Lead in a Stream Ecosystem,
W77-11533 1023 5B

Effects of Simulated Rain Acidified With Sulfuric Acid on Host-Parasite Interactions,
W77-11542 1023 5C

Quantum-Mechanical Studies of Environmental Effects on Biomolecules: I. Hydration of Formamide,
W77-11645 1023 2K

Organic Contaminants in Aqueous Coal Conversion Effluents: Environmental Consequences and Research Priorities,
W77-11647 1023 5C

Effects of Water Velocity on Activity of Juvenile Striped Bass,
W77-11648 1023 5C

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

Characteristics of Percolate of Solid and Hazardous Waste Deposits,
W77-11721 1023 5E

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

VLCC 'METULA' Oil Spill,
W77-11889 1023 5G

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut: 6th Quarterly Report.
W77-11899 1023 5C

A Study on the Effects of Maintenance Dredging on Selected Ecological Parameters in Gulfport Harbor, Mississippi.
W77-11901 1023 5C

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

A Community Developer's Role in Environmental Planning and Monitoring,
W77-12396 1024 5C

Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

Hutchinson Island: Evaluation as a Potential Area of Critical State Concern.
W77-12585 1024 6G

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

Institutional and Environmental Aspects of Geothermal Energy Development,
W77-12679 1024 6G

Effects of Man on Sedimentation and Erosion in Rural Environments,
W77-12843 1024 4D

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

The MIT/Marine Industry Collegium Opportunity Brief No. 8. Computer Models for Environmental Engineering and Research in Near-Coastal Environments.
W77-12916 1024 2L

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

Environmental Impact on Property Values Along New York's Lake Erie Coastline,
W77-12960 1024 5G

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

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W77-12966 1024 6G

ENVIRONMENTAL EFFECTS. WATER RESOURCE

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

ENVIRONMENTAL ENGINEERING

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

Syncrude Vows Environmental Responsibility,
W77-02600 1006 5D

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

Equalization of Flow Variations in Combined Sewers,
W77-03860 1008 5D

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

Annotated Bibliography on Northern Environmental Engineering 1974-75,
W77-06948 1014 5D

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

A Consultant's View of PL 92-500.
W77-08958 1018 5G

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

New Roles For the Old Dam Builders,
W77-09552 1019 6F

Water Quality Management--Waste Disposal: A Water Authority Viewpoint,
W77-12428 1024 5E

ENVIRONMENTAL FATE

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

ENVIRONMENTAL GEOLOGY

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

ENVIRONMENTAL GRADIENT

Method for Finding Temperature Environments for Fish,
W77-01212 1003 7B

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

ENVIRONMENTAL HAZARDS

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

ENVIRONMENTAL IMPACT

A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

Preference Models of Environmental Impact,
W77-04020 1008 6G

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

People and the Sea: Future Impacts and Opportunities,
W77-04474 1009 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

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W77-05538 1011 6G

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W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 4: Hazards; Data Management.
W77-12966 1024 6G

ENVIRONMENTAL IMPACT ANALYSIS

Environmental Impacts of Land use Change,
W77-05922 1012 6G

ENVIRONMENTAL IMPACT ASSESSMENT

A Review and Analysis of Environmental Impact Assessment Methodologies,
W77-05296 1011 6G

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Water Resources Assessment Methodology (WRAM)--Impact Assessment and Alternative Evaluation,
W77-09985 1020 6G

ENVIRONMENTAL IMPACT EVALUATION

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

ENVIRONMENTAL IMPACT STATEMENT

The Selling of the Shelf,
W77-00979 1002 5G

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

A Review and Analysis of Environmental Impact Assessment Methodologies,
W77-05296 1011 6G

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

Colorado River Water Quality Improvement Program (Final Environmental Statement).
W77-09527 1019 5G

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Dredge River Channel: Naval Submarine Base, New London, Groton, Connecticut (Final Supplement to Final Environmental Impact Statement).
W77-10454 1021 6G

National Environmental Policy: Coordination or Confusion,
W77-10927 1022 6E

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

ENVIRONMENTAL IMPACT STATEMENT (EIS)

Upper West Fork River Watershed v Corps of Engineers (Construing an Environmental Impact Statement for a Proposed Dam Project).
W77-05073 1010 6E

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

ENVIRONMENTAL IMPACT STATEMENTS

Planning Level and Program Impact Statements under the National Environmental Policy Act: A Definitional Approach,
W77-00705 1002 6G

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

Guidelines for the Preparation of Environmental Reports for Fossil-Fueled Steam Electric Generating Stations,
W77-06918 1014 6G

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

ENVIRONMENTAL IMPACTS

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Computer Simulation of Long-Term Secondary Impacts of Water and Wastewater Projects,
W77-09195 1019 5B

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

ENVIRONMENTAL LOAN PROGRAM

Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

ENVIRONMENTAL MANAGEMENT

Conceptual Framework of Environmental Management,
W77-00178 1001 6G

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

A Review and Analysis of Environmental Impact Assessment Methodologies,
W77-05296 1011 6G

ENVIRONMENTAL PARAMETERS

Report to Corps of Engineers Gas Supersaturation Research, Prescott Facility, 1974,
W77-05785 1012 5C

ENVIRONMENTAL PERSISTENCE

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

ENVIRONMENTAL PLANNING

Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

ENVIRONMENTAL POLICIES

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

ENVIRONMENTAL POLICY

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Section 208 and Section 303 Water Quality Planning and Management: Where is it Now,
W77-08949 1018 5G

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

ENVIRONMENTAL POLICYMAKING

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

ENVIRONMENTAL PROTECTION

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

Large-Scale Management Systems and Environmental Protection,
W77-04623 1010 5G

Nature of Potential Oil Industry Operations on the Atlantic Continental Shelf,
W77-04936 1010 6G

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

ENVIRONMENTAL PROTECTION AGENCY

EPA and Agriculture: Establishing a Partnership,
W77-00472 1001 5G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

ENVIRONMENTAL PROTECTION AGENCY (EPA)
Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Pollution of Lake Michigan and Its Tributary Basin.
W77-09528 1019 5G

ENVIRONMENTAL PROTECTION PROGRAMS
A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

ENVIRONMENTAL QUALITY
Balancing Environmental Quality, Energy Use, and Growth: Difficult Decisions,
W77-00175 1001 6G

The Environment and the Structure of Social Goals,
W77-00181 1001 5G

Ecosystem Models and Environmental Policy,
W77-01172 1003 6G

Environmental Data Management,
W77-01347 1003 6G

National Environmental Statistical Report,
W77-02447 1005 7C

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

An Input-Output Analysis of Environmental Preservation,
W77-06706 1014 6G

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

ENVIRONMENTAL REGULATIONS
Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

ENVIRONMENTAL RESPONSE TEAM
What Are We Doing About Oil Spill,
W77-09553 1019 5G

ENVIRONMENTAL SANITATION
Hygienic Problems of Environmental Protection in Connection with the Further Development of Siberia and the Far East, (In Russian),
W77-00349 1001 5G

Effect of Abate (Diphos) on the General Sanitary Conditions of Water Bodies: II, (In Russian),
W77-01607 1004 5D

Investigation of Selected Potential Environmental Contaminants: Haloethers,
W77-02643 1006 5C

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

Marine Sanitation Device Standard.
W77-03531 1007 5G

Marine Sanitation.
W77-03720 1008 6E

Water Reservoirs.
W77-04381 1009 6E

Residual Waste: Model State Legislation,
W77-04905 1010 5G

Trends in Sludge Treatment and Disposal Practices in the United States,
W77-07083 1014 5D

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

Package Aeration Plants.
W77-09588 1019 5D

Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

ENVIRONMENTAL STABILITY
Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

ENVIRONMENTAL STANDARDS
Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

ENVIRONMENTAL STRESSORS
Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

ENVIRONMENTAL TRADEOFFS
Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

ENVIRONMENTAL TRANSPORT MODEL
PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

ENVIRONMENTAL TRUST FUND
Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

ENVIRONMENTAL VARIABLES
Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

ENVIRONMETAL EFFECTS
Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

ENZYMATIC ACTIVITY (SOILS)
Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

ENZYMATIC TREATMENT
Enzymatic Treatment of Primary Municipal Sludge with Trichoderma Viride Cellulase,
W77-08529 1017 5D

Enzymatic Treatment of Dairy Effluents,
W77-08937 1018 5D

ENZYME DETECTION TEST
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

ENZYME KINETICS
Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

ENZYME PROCESS DESIGN
Enzyme Process Design for Water Treatment,
W77-05336 1011 5D

ENZYMES
The Effect of Digested Sludge on Soil Biological Activity,
W77-00612 1002 5D

The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

The Effects of Temperature and Hydrostatic Pressure on Enzymes of an Abyssal Fish, Antimora Rostrata: Liver NADP-Linked Isocitrate Dehydrogenase,
W77-00875 1002 5C

Enzymatic in Situ Measurements: New Seawater and Sediment Measurement Methods, (In German),
W77-01031 1002 5A

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-05275 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Lead Effects on Several Enzymes and Nitrogenous Compounds in Soybean Leaf,
W77-09280 1019 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Activity of Intestinal Aryl Hydrocarbon Hydroxylase in Guinea Pigs Fed High Element Containing Sludge-Grown Cabbage,
W77-10576 1021 5C

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Activity of Hydrolytic Enzymes in Water and Biomass of Planktonic Organisms in a Reservoir of an Eutrophic Type in the Lagoon of Kursiu Marios, (In Russian),
W77-11509 1023 5C

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 2. Some Factors Influencing Oxygen Uptakes and Dehydrogenase Activities,
W77-12777 1024 2G

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 3. Some Factors Influencing the Activities of Polyphenol-Oxidising Enzymes,
W77-12778 1024 2G

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

EPA STORM WATER MANAGEMENT MODEL

Modeling Urban Runoff from a Planned Community,
W77-09190 1019 5B

EPA STORMWATER MANAGEMENT MODEL (SWMM)

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

EPETHILIA

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

EPHEMERAL STREAMS

Scour and Fill in an Ephemeral Stream,
W77-00827 1002 2J

Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

EPHYRAE

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

EPIBENTHIC FISH

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

EPIBIOTIC FAUNA

The Epibiotic Flora and Fauna of the Serpulid Zone in the Littoral Region on the Mukkan Coast (Bay of Bengal), (In Italian),
W77-00530 1002 2L

EPIBIOTIC FLORA

The Epibiotic Flora and Fauna of the Serpulid Zone in the Littoral Region on the Mukkan Coast (Bay of Bengal), (In Italian),
W77-00530 1002 2L

EPIDEMIOLOGY

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

The Epidemiology of Reclaimed Water,
W77-01492 1003 5D

Use of Punch Cards for Accumulating and Analyzing Data on the Sanitary-Epidemiological State of Rural Populated Areas, (In Russian),
W77-01600 1004 5G

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

An Incident of Industrially Related Toxic Peripheral Neuropathy,
W77-02838 1006 5A

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

National Cancer Institute Program of Cancer Surveillance, Epidemiology and End Results Reporting (Seer Program),
W77-02843 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Malacological Studies in the Lufira (Katanga) Artificial Lake Area: Distribution and Ecology of Aquatic Molluscs: Epidemiological Role of Intestinal and Urinary Bilharziosis Vectors, (In Danish),
W77-10238 1021 5C

Epidemics of West Nile and Sindbis Viruses in South Africa with Culex (Culex) Univittatus Theobald as Vector,
W77-11547 1023 5C

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

An Epidemiological Study of Mummy Berry Disease of Highbush Blueberry,
W77-11928 1023 3F

EPIDEMOLOGY

The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
W77-02845 1006 5G

EPILIMNION

Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

EPILITHIC ALGAE

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

EPILITHIC PERIPHYTON

A Practical Apparatus for Quantitative Sampling of Epilithic Periphyton, (In French),
W77-09623 1020 7B

EPILITHON

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

EPIPELON

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

EPIPHYTIC ALGAE

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

EPIPHYTIC BACTERIA

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

EPIPHYTOLOGY
Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

EPISCHURA
Littoral Zooplankton of the Baikal Open Zone, (In Russian),
W77-00333 1001 2H

EPIZOOTIOLOGY
Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

EPN
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

EQUAL FLOW DISTRIBUTION
Short, Large Diameter Screens Prove Effective,
W77-04120 1009 8G

EQUALIZING RESERVOIRS
Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

EQUATION OF TRANSFER
Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

EQUATIONS
Effect of Sequence Length n On the Choice of Assumed Distribution of Floods,
W77-00861 1002 2E

Water Transport in the Soil-Root System: Transient Analysis,
W77-01147 1003 2G

Transient Drainage with Nonlinearity and Capillarity,
W77-01633 1004 2F

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Analytic Solutions for Drawdowns in Rectangular Artesian Aquifers,
W77-03854 1008 4B

Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

Antisymmetric Stress for Sea Ice,
W77-04240 1009 2C

Comparison of Drainage Equations for the Gravity Drainage of Stratified Profiles,
W77-04248 1009 2G

Introductory Remarks on the State Space Modeling of Water Resource Systems,
W77-04506 1009 6A

Periodic Solutions of a Nonlinear Diffusion Equation Used in Groundwater Flow Theory: Examination Using a Hele-Shaw Model,
W77-04761 1010 2F

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

Computation of Solar Radiation From Sky Cover,
W77-04772 1010 2B

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W77-06381 1013 5C

Simple Formulae for the Estimation of Wet Bulb Temperature and Precipitable Water,
W77-06646 1014 2B

Profiles and Evaporation,
W77-06898 1014 2D

A Universal Calibration Equation for Price Meters and Similar Instruments,
W77-06943 1014 7B

Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

Solution of Equation for Two-Dimensional Infiltration Problems,
W77-07142 1015 2G

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

The Generation of Salinity Finestructure by Vertical Diffusion,
W77-07775 1016 2L

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

Integral Equation for the Description of Stream-Aquifer Interaction,
W77-09092 1018 2F

Selecting the Proper Reaeration Coefficient for Use in Water Quality Models,
W77-09184 1019 5G

On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

Modeling of Unconfined Ground-Water Systems,
W77-10661 1021 2F

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

Derivation of Equations Describing Solute Transport in Ground Water,
W77-12381 1024 5B

EQUILIBRIUM
Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

Calcium Equilibrium in Mixed Ion Aqueous Systems Open to the Atmosphere,
W77-02538 1005 2K

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

WATEQF-A Fortran IV Version of WATEQ, A Computer Program for Calculating Chemical Equilibrium of Natural Waters,
W77-04226 1009 7C

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

Calculation of Calcium Carbonate-Carbon Dioxide Equilibrium in Water and Mixtures of Water,
W77-07513 1015 5A

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

EQUILIBRIUM PARTITIONING
Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

EQUILIBRIUM SOLUBILITY DIAGRAM
The Chemistry of Lead and Cadmium in Soil: Solid Phase Formation,
W77-05202 1011 5B

EQUIPMENT
Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

Proceedings of Conference on Farm Animal Wastes: 'Farmer Experiences, Codes, Guidelines, Research Progress, Equipment'.
W77-01521 1003 5G

Sandwich Construction G.R.P.
W77-02368 1005 8G

The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Sewerage Treatment Apparatus,
W77-03406 1007 5D

Biological Purification of Sewage Water-In a Multi-Stage Treatment Tank With Rotating Contactor Surfaces Partly Immersed in the Liquid.
W77-03407 1007 5D

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

An Electrical Conductivity Probe for Determining Soil Salinity,
W77-04763 1010 2G

New Sludge-Dewatering Press Makes Its Debut at Glatfelter (Paper Mill).
W77-05695 1012 5D

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

Portable, Hand-Operated Cycle Sieve for Washing Macroinvertebrate Samples,
W77-06424 1013 7B

Electrically Powered Sampler for Benthic Macroinvertebrates,
W77-06757 1014 7B

Testing and Grouting Leaking Joints,
W77-06986 1014 8G

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Electron-Beam Irradiation of Waste Products--e.g., For Sterilization of Sewage Sludge and Waste Industrial Products.
W77-06997 1014 5D

A Hand-Operated In Situ Water Sampler,
W77-07200 1015 5A

Water Sampling from Unpumped Wells with Static Water Levels Deeper than 10 Metres,
W77-07787 1016 5A

Dewatering Machines (Entwasserungsmachinen),
W77-08544 1017 5D

Mechanical Surface Aerator for Effluent Purification--Has the Liquid Scooped by the Curved Elements and Ejected into the Air Above,
W77-08558 1017 5D

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

Portable Automated Mesonet in Operation,
W77-09131 1019 2B

A Simple Hand Corer for Shallow Water Sampling,
W77-09715 1020 7B

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Dioxide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

Characteristics of Silver Iodide Ice Nuclei Generators Currently Used by SO.R.E.M.,
W77-10309 1021 3B

Growth and Benefits of Low Speed Configuration,
W77-10622 1021 5D

A Method for Cutting and Preparing Thin Sections of Frozen Soils,
W77-10802 1022 2C

Integrated Automatic Water Sample Collection System,
W77-10972 1022 7B

Bed Load Sampler for Streams with Sandy Bed,
W77-11208 1022 2J

Experiences with Recovery of Viruses from Storm Water,
W77-11492 1022 5D

A Modified Mercury Tensiometer,
W77-11615 1023 2G

Aeration Tank for Activated Sludge Treatment of Waste Water - Is Smaller and Requires Less Power for a Given Treatment Capacity.
W77-11682 1023 5D

Basic Units Manufactured for Sludge Treatment.
W77-11699 1023 5D

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

New Development.
W77-11718 1023 5D

Brisbane Council's First in Australia at Sewerage Treatment Plant.
W77-11719 1023 5D

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

Chamber for Holding Aquatic Microinvertebrates During Toxicity Tests in a Flow-Through Diluter System,
W77-12185 1023 5A

Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

New Oxygen Meters.
W77-12399 1024 5A

Waste Water Treatment System.
W77-12451 1024 5D

Removal of Sludge from Waste Water Treatment Plant-By Rotary Sweep Footbridge with Inbuilt Suction Scraper.
W77-12457 1024 5D

Low-Cost Data Analysis Systems for Processing Multispectral Scanner Data,
W77-12549 1024 7B

Sewage Treatment Aeration Systems,
W77-12926 1024 5D

Method for the Treatment of Wastewater,
W77-12936 1024 5D

Waste Water Treatment Apparatus,
W77-12937 1024 5D

Apparatus for the Treatment of Liquids,
W77-12938 1024 5D

Apparatus for Removing Solid Material from Sewage or Other Liquid,
W77-12947 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

EQUITABLE APPOINTMENT
Allocating Buried Treasure: Federal Litigation Involving Interstate Ground Water,
W77-08491 1017 6E

EQUITABLE APPORTIONMENT
Upper Niobrara River Compact.
W77-00988 1002 6E

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

EQUITY
Effluent Charges and Political Realities--A Qualification,
W77-00392 1001 5G

Equity Measures for Exploring Water Quality Management Alternatives,
W77-02075 1004 5G

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

EREMOPHYTES
Water Regime of Central Asian Desert Plants, (In Russian),
W77-06150 1013 2D

ERIE CANAL
Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

ERIE COUNTY (NY)
Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

ERIE (PA)
Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

ERODED SOIL
Predicting Particle-Size Composition of Eroded Soil,
W77-05439 1011 2J

ERODIBILITY
Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

EROSION
A Conceptual Model of Offshore Permafrost,
W77-00094 1001 2C

Modeling of Soil Movement Across a Watershed,
W77-00159 1001 2J

Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Economic Impacts of State Environmental Programs in a National Framework: The Iowa Conservancy Law,
W77-00303 1001 6G

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Geomorphological Mapping Applied to Soil Erosion Evaluation,
W77-00369 1001 2J

Erosion in 1973-74: The Record and the Challenge,
W77-00471 1001 2J

Study of the Erosion Stability of the Plow Layers of Gray Forest Soils of the Northern Forest-Steppe, (In Russian),
W77-00514 1001 4D

Proceedings of the Third Federal Inter-Agency Sedimentation Conference 1976.
W77-00775 1002 2J

Erosion Potential of Soils,
W77-00776 1002 2J

Effect of Land Use on Sediment Delivery Ratios,
W77-00777 1002 2J

Watershed Erosion Model Validation for Southwest Iowa,
W77-00778 1002 4D

Erosion and Sediment Yield in New Mexico,
W77-00782 1002 2J

Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

Sediment Yield from Steep Lands in the Driftless Area,
W77-00786 1002 2J

Erosion and Sediment from Forest Land Uses, Management Practices and Disturbances in the Southeastern United States,
W77-00787 1002 4C

Simulating Erosion Dynamics with a Deterministic Distributed Watershed Model,
W77-00788 1002 4D

Soil Erosion Concepts and Misconceptions,
W77-00793 1002 2J

Techniques of Researching Information for the Development of a Manual to Vegetate Soils of Low Productivity Disturbed by Construction Activities,
W77-00805 1002 4D

Nutrients Lost in Debris and Runoff Water From a Burned Chaparral Watershed,
W77-00810 1002 4C

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

Channel Changes Produced by the 1973 Flood on the Lower Mississippi River,
W77-00833 1002 2J

Sedimentation in Coon Creek Valley, Wisconsin,
W77-00835 1002 4D

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

Coastal Engineering Data Network,
W77-00898 1002 2L

Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

Man's Impact on Erosion in the Rural Environment: The Indian Experience,
W77-02778 1006 4C

Effects of Man's Activities on Erosion in Rural Environments and a Feasibility Study for Rehabilitation,
W77-02779 1006 4C

Erosion Phenomena in Drainage Basins Reflected by Sediment Flow in Rivers (Phenomenes D'Erosion des Bassins Versants Refletes par les Transports Solides des Cours D'Eau),
W77-02780 1006 2J

The Effect of Afforestation on Erosion Processes and Sediment Yield,
W77-02781 1006 4C

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

Computer Modeling of Erodible Flood Channels and Deltas,
W77-03993 1008 2J

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Sediment-Control Methods in Urban Development: Some Examples and Implications,
W77-04982 1010 4D

Relation of Erosion to Sediment Yield,
W77-04986 1010 2J

Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

Effect of Pore Water Pressure on Sand Splash,
W77-05354 1011 2J

Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

Runoff and Erosion,
W77-06236 1013 4D

Bentley v. Industrial Fire Protection Company (Liability for Increasing Drainage onto Adjoining Property).
W77-06563 1013 6E

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Characteristics of Water Flow at the North End of the Wassaw Barrier Island Complex. Wassaw Island Erosion Study, Part II,
W77-06939 1014 2J

Changing Needs and Opportunities in the Sediment Field,
W77-06964 1014 2J

Runoff, Erosion, and Nutrient Movement from Interrill Areas,
W77-07766 1016 2J

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Present-Day Slumping and Erosion Phenomena on Irrigated Lands (Exemplified by Southeastern Ciscaucasia), (In Russian),
W77-08885 1018 2J

Means and Method for Controlling Beach and Sandbar Erosion,
W77-08894 1018 8B

Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

Splash Erosion of Primary Particles and Aggregates,
W77-09288 1019 2J

A Portable Rainfall Simulator for Erodibility and Infiltration Measurements on Rugged Terrain,
W77-09441 1019 2J

Matting for the Prevention of Hydraulic Erosion,
W77-09798 1020 4D

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

The Causes of Erosion to Siletz Spit, Oregon,
W77-10039 1020 2L

A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

Public Access to Receding Beaches,
W77-10462 1021 6E

Shore Stability and Beach and Bluff Protection Methods for the Illinois Shore of Lake Michigan.
W77-10502 1021 2J

Hydrogeologic, Geologic, and Engineering Aspects of Lake Michigan Surficial Deposits,
W77-10503 1021 2J

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

Transient Wind Erosion: A Study of the Nonstationary Effect on Rate of Wind Erosion,
W77-12552 1024 2J

Protection of Slopes Against Rainfall Erosion,
W77-12561 1024 4D

Deposition and Erosion in an Alluvial Channel (Les Phenomenes de Deposition et D'erosion dans un Canal Alluvionnaire),
W77-12797 1024 2J

Erosion and Sediment Control Audiovisual Training Program, Instructor's Manual,
W77-12815 1024 5G

Application of a 'Radiation-Type' Boundary Condition to the Wave-Porous Problem,
W77-12911 1024 2L

EROSION CONTROL

Guidelines for Sediment Control in Irrigation Return Flow,
W77-00090 1001 5G

Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

Tri-State Conference Report: Methods for Beach and Sand Dune Protection,
W77-00193 1001 4D

Study of the Erosion Stability of the Plow Layers of Gray Forest Soils of the Northern Forest-Steppe, (In Russian),
W77-00514 1001 4D

Submerged Burlap Strips Aided Rehabilitation of Disturbed Semiarid Sites in Colorado and New Mexico,
W77-00727 1002 4D

Comparative Costs of Erosion and Sedimentation Control Measures,
W77-00794 1002 4D

Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

Soil and Water Loss from Impoundment Terrace Systems,
W77-00796 1002 4D

Erosion and Sediment Control on Reshaped Land,
W77-00798 1002 4D

Design and Performance of Rock Revetment Toes,
W77-00807 1002 8D

Control of Turbidity at Construction Sites,
W77-00808 1002 4D

Channel Improvements of the Missouri River,
W77-00836 1002 4D

A Plan for Michigan's Shorelands.
W77-00958 1002 6B

Soils of the Meshed Tract in Southwestern Turkmen SSR, (In Russian),
W77-00975 1002 2G

Shoreline Erosion: Implications for Public Rights and Private Ownership,
W77-00982 1002 6E

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Seventeen-Year Sediment Production from a Semiarid Watershed in the Southwest,
W77-01433 1003 4D

Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

Salt Marsh Establishment and Development,
W77-02420 1005 4D

Approaches to Controlling Erosion in Rural Areas,
W77-02782 1006 4D

The Role of Forest Stands in the Control of Erosion Processes and Other Negative Natural Phenomena,
W77-02785 1006 4D

Soil Cover Governs Soil Loss on United States Claypan Soils,
W77-02787 1006 4D

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Afforestation in Low Rainfall Areas,
W77-03139 1007 4D

Rainfall Erosivity Analysis of Soil Conservation Research Centre, Vasad(Gujarat),
W77-03627 1008 4D

Erosion Control,
W77-04315 1009 4D

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

Tables of Geometry for Low-Standard Roads for Watershed Management Considerations, Slope Staking, and End Areas,
W77-04831 1010 4D

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding,
W77-05947 1012 4D

Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

Runoff and Erosion,
W77-06236 1013 4D

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

An Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control,
W77-06671 1014 5G

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

Diminution Ratios for Planning Construction-Area Sediment Controls,
W77-06980 1014 4D

Sediment Yield and Land Use in Southwest United States,
W77-08178 1017 4D

Chemical and Vegetative Stabilization of Soils,
W77-08512 1017 8D

Performance Characteristics of a Grassed-Waterway Transition,
W77-08849 1018 4D

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

Conservation Districts Law.
W77-09584 1019 6E

Matting for the Prevention of Hydraulic Erosion,
W77-09798 1020 4D

Grassing Roads and Eroded Areas in the Drakensberg,
W77-10075 1020 4D

Stream Community Response to Road Construction Sediments,
W77-10182 1021 4C

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

The Swirl Concentrator for Erosion Runoff Treatment,
W77-12080 1023 5D

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

Case Study of a Watershed Rehabilitation Project: Alkali Creek, Colorado,
W77-12367 1024 4D

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

Two-Dimensional Model of Erosion from a Watershed,
W77-12575 1024 4D

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

Erosion and Sediment Control Audiovisual Training Program, Instructor's Manual,
W77-12815 1024 5G

Effects of Man on Sedimentation and Erosion in Rural Environments,
W77-12843 1024 4D

EROSION HAZARD

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

EROSION POTENTIAL

Erosion Potential of Soils,
W77-00776 1002 2J

EROSION PREDICTIONS

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

EROSION PROCESSES

Soil Erosion Concepts and Misconceptions,
W77-00793 1002 2J

EROSION RATES

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

Rainfall Erosivity Analysis of Soil Conservation Research Centre, Vasad(Gujarat),
W77-03627 1008 4D

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

Effects of Off-Road Vehicle Use on the Hydrology and Landscape of Arid Environments in Central and Southern California,
W77-04980 1010 4C

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding,
W77-05947 1012 4D

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

EROSIVITY

Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

ERPOBDELLA OCTOCULATA

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

ERROR ANALYSIS

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

ERROR PROPAGATION

Error Propagation in Determining Hydraulic Conductivities from Successive Water Content and Pressure Head Profiles,
W77-05434 1011 2G

ERROR VARIANCE ANALYSIS

Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

ERRORS

Computational Hydraulics: A Short Pathology,
W77-05797 1012 8B

ERTS

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

ERTS-1

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

ERTS DATA

Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

ERTS (LANDSAT)

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

ERYTHROCYTE TRANSFER

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

ERYTHROCYTES

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

ESCAMBIA BAY (FLA)

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

ESCAMBIA RIVER-BAY (FLA)

Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

ESKERS

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

ESMR DATA
A Satellite Technique for Quantitatively Mapping Rainfall Rates Over the Oceans,
W77-10113 1021 2B

ESSENTIAL NUTRIENTS
The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

ESSO COREXIT 9527
The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

ESTER-TYPE SURFACTANT
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

ESTERO BAY (FLA)
Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

ESTERS
Experimental Verification of the Maximum Permissible Concentration on Methyl and Butyl Esters of Methacrylic Acid in Water Bodies, (In Russian),
W77-06299 1013 5C

ESTIMATED BENEFITS
Value of Time in Recreation Benefit Studies,
W77-00710 1002 6B

Impact Studies and the Evaluation of Public Projects,
W77-02062 1004 6B

Estimating Net Benefits of Recreation Under Conditions of Excess Demand,
W77-03964 1008 6D

ESTIMATED COSTS
Quenching Saldanha's Thirst.
W77-01473 1003 3E

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Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

ESTIMATES
Strategic Environmental Assessment System, Residuals Forecasting, An Analysis of Results,
W77-01958 1004 5G

ESTIMATING
A Stable Estimator for Linear Models 1. Theoretical Development and Monte Carlo Experiments,
W77-00123 1001 4A

Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

Estimation of Areal Average Precipitation Using Different Network Densities and Averaging Techniques,
W77-05109 1011 2B

Network Design for the Estimation of Areal Mean of Rainfall Events,
W77-05194 1011 2B

The Use of Oxygen Deficit Measurements as an Index of Eutrophication in Temperate Dimictic Lakes,
W77-05222 1011 5C

Reservoir Basin Morphometry,
W77-05447 1011 4A

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Current Methods Used in the Soil Conservation Service to Estimate Sediment Yield,
W77-06657 1014 4D

Estimating Above and Below Normal Rainfall Periods Over South Africa, 1972-2000,
W77-07170 1015 2B

Photosynthetic Rates in Lake Superior,
W77-07450 1015 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

Optimal Estimation in Stream Quality Modeling,
W77-09052 1018 5B

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

Field Study of Evaporation - Analysis of Data From Eucumbene, Cataract, Manton and Mundaring,
W77-10376 1021 2D

A Recursive Approach to Time-Series Analysis for Multivariable Systems,
W77-10807 1022 5B

Determination of Regional Evapotranspiration from Upper Air Meteorological Data,
W77-11211 1022 2D

Estimation of Net Water Demand of Crops in the Upper Berg River Valley,
W77-11580 1023 3F

A Method of Estimating the Probability of Occurrence of Snow Water Equivalents in the United Kingdom,
W77-11601 1023 4A

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

Estimating Evaporation and Transpiration from a Row Crop During Incomplete Cover,
W77-11947 1023 3F

ESTIMATING COSTS
A Computer Program for Estimating Costs of Owning and Operating an Irrigation Well Under Conditions of Declining Water Levels,
W77-03211 1007 6C

ESTIMATING EQUATIONS (FLOODS)
Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

ESTIMATION
Description of an Intended Project on Water Quality Estimation,
W77-10817 1022 5B

ESTONIAN-SSR (NIGULA SWAMP)
Hydrochemistry of the Nigula Swamp, (In Estonian),
W77-07859 1016 2H

ESTOPPEL

Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

ESTUARIES

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

Chemical and Biological mobilization of Heavy Metals from Estuarine Sediments,
W77-00839 1002 5C

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

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W77-00888 1002 2L

Model for a Study,
W77-00971 1002 2L

Nitrogen Fixation in the Rhode River Estuary of Chesapeake Bay,
W77-01059 1003 5C

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Chemical and Physical Characteristics of Water in Estuaries of Texas, October 1971-September 1973,
W77-01416 1003 5B

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

The Density of Artificial River and Estuarine Waters,
W77-01612 1004 2L

The Tides of the East River, New York,
W77-01617 1004 2L

Characteristics of a Tide-Induced Estuarine Front,
W77-01619 1004 2L

Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

ESOO1: Verification of Model for New York Harbor,
W77-01791 1004 5G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

A Mixed-Dimension Kinematic Estuarine Model,
W77-02131 1005 2L

Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

A Comparison of Lumped-Parameter and Diffusional Models Describing the Effects of the Outlet Boundary Conditions on the Mixing in Flow Systems,
W77-02147 1005 2L

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Maine Rivers Bibliography- A User's Manual,
W77-02224 1005 10C

Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Estuarine Pollution Control: Objectives and Priorities,
W77-02343 1005 5G

Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Oregons's Estuaries,
W77-02593 1006 2L

Hydrodynamic Model of the Great Bay Estuarine System,
W77-02667 1006 2L

Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

Calibration of a Thermal Enrichment Model for Shallow, Barricaded Estuaries,
W77-03171 1007 5B

Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Seasonal Variation of Residual Drift in Long Island Sound,
W77-03322 1007 2L

Sediment Mass Balance of a Large Estuary, Long Island Sound,
W77-03323 1007 2L

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Tidal Currents and Estuarine-Type Circulation in Johnstone Strait, British Columbia,
W77-03846 1008 2L

Measurements of Waves in Southampton Water and their Variation with the Velocity of the Tidal Current,
W77-03856 1008 2L

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

On the Description of the Hydrographic State and the Circulation in the Baltic Deep Water,
W77-04006 1008 2L

The Wetlands Dilemma: A Solution,
W77-04477 1009 6G

The Annual Cycle of Wave Climates Along the East Coast of the United States,
W77-04482 1009 2L

The Delaware Estuary,
W77-04497 1009 6G

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

Waste Disposal,
W77-04847 1010 5E

The Biological Importance of a Polluted Estuary,
W77-04860 1010 5C

Some Remarks on Computer Modeling of Coastal Flows,
W77-04897 1010 5B

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

Estuarial Models,
W77-05015 1010 2L

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

The Ecological Impact of Synthetic Organic Compounds on Estuarine Ecosystems,
W77-05028 1010 5C

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1974.
W77-05208 1011 2L

Heat Balance in the Estuarine Region, (In Japanese),
W77-05291 1011 2L

An X-Z Hydraulic/Thermal Model for Estuaries,
W77-05358 1011 5B

The Open Marine and Estuarine Waters,
W77-05401 1011 2L

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Power Plants, Chlorine and Estuaries,
W77-05491 1011 5C

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W77-05537 1011 6G

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
W77-06505 1013 5A

Numerical Model of Estuarine Circulation,
W77-06519 1013 5B

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

Investigation of Flushing Time in the Lafayette River, Norfolk, Virginia,
W77-06881 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Incipient Sediment Motion in Entrances with Shell Beds,
W77-06930 1014 2L

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Coastal Zone Management, Annotated Bibliography,
W77-06937 1014 2L

Blank and Salinity Corrections for Automated Nutrient Analysis of Estuarine and Sea Waters,
W77-06938 1014 5A

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

The Responses of Some Estuarine Organisms to Suspended Solids,
W77-07353 1015 8D

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

The Response of an Estuary to the Closure of a Mobile Barrier; Richmond Barrier on the Upper Thames Estuary,
W77-07366 1015 2L

Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

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Data 1973/1974 Regarding Hydrography and Water Quality in the Weser Estuary, Germany, (In German),
W77-07584 1015 5C

Bacteriologic Analysis in the Arosa, Vigo and Pontevedra Estuaries, (In Spanish),
W77-07589 1015 5A

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Tidal and Current Prediction for the Amazon's North Channel Using a Hydrodynamical-Numerical Model,
W77-07743 1016 2L

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

A Theoretical Framework for the Description of Estuaries,
W77-08057 1016 2L

The Lateral Movement of the Coastal Water and Its Relation to Vertical Diffusion,
W77-08058 1016 2L

Methodology for Applying the Finite Element Method to Partially Stratified Estuaries,
W77-08198 1017 2L

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

A Controllable Automated Environmental Data Acquisition and Monitoring System,
W77-08441 1017 7C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Effect of the Boundary Surface Between Sea and Fresh Waters on the Distribution of Dissolved Oxygen in the Mouth Region of the Dnieper River,
W77-08832 1018 5B

Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

Analytical Models for the Evaluation of Supplemental Aeration in Texas Estuaries,
W77-08917 1018 5B

An Examination of Some Physical and Biological Impacts of Dredging in Estuaries,
W77-08918 1018 5C

A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

User's Manual for the M.I.T. Transient Water Quality Network Model--Including Nitrogen-Cycle Dynamics for Rivers and Estuaries,
W77-09519 1019 5B

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Three-Layer Circulations in Estuaries and Harbors,
W77-09723 1020 2L

A Mathematical Model for Water Quality in a Coastal Region in Terms of Sea Bottom Waste Deposits (Kaitei osenbusshitsu nado no eikyo o koryo shita kaiiki no suishitsu no yosokumoderu no kaihatsu ni kansuru kenkyu),
W77-09911 1020 5B

Entrainment Velocity in Natural Stratified Vertical Shear Flow,
W77-09946 1020 2L

Computation of Unsteady Flows in Rivers and Estuaries by the Method of Characteristics,
W77-09993 1020 2E

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

The Georgia Coastal Environment. A Compilation of Resource Materials Covering the Coastal Plain, Estuaries and Offshore Waters.
W77-10025 1020 2L

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

A Dynamic Water Quality Model for the Neuse Estuary, N.C.,
W77-10037 1020 5B

Oligochaeta of the Deniester River Mouth Region, (In Russian),
W77-10065 1020 2L

Buoyant Surface Discharge and Small-Scale Oceanic Fronts: A Numerical Study,
W77-10104 1021 2L

Primary Production Studies in Porto Novo Waters, S. India,
W77-10140 1021 5C

Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

The Zooplankton of Msikaba Estuary,
W77-10214 1021 2L

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

A Bibliography of Estuarine Research in Oregon,
W77-10511 1021 2L

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone. Spec. Rept. III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Volume II--Appendices,
W77-10908 1022 2L

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

Survey of Fish Impingement at Power Plants in the United States, Volume III. Estuaries and Coastal Waters,
W77-11127 1022 8I

Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

Tide Prints: Surface Tidal Currents in Puget Sound,
W77-11653 1023 2L

A Preliminary Oceanographic Survey of the Damariscotta River Estuary, Lincoln County, Maine,
W77-11657 1023 5B

Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Some Remarks on Computer Modeling of Coastal Flows,
W77-11781 1023 2L

Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

A Kinematic Reference Frame for Estuaries of One Dimension,
W77-12109 1023 5B

Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

On the Calculation of Tidal Currents in Homogeneous Estuaries,
W77-12297 1024 2L

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

Zooplankton of the Dniester Estuary and Adjacent Seaside Under Anthropogenic Influences, (In Russian),
W77-12977 1024 5B

ESTUARINE CIRCULATION

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

ESTUARINE ECOSYSTEMS

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

ESTUARINE ENERGETICS

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

ESTUARINE ENIRONMENT

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

ESTUARINE ENVIRONMENT

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
* W77-00273 1001 5G

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

The Metula Oil Spill,
W77-02679 1006 5C

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Estuarine Pollution, A Bibliography, Volume 2.
W77-04109 1009 5B

Estuarine Pollution, A Bibliography, Volume 3.
W77-04110 1009 5B

Heavy Metal Levels in Suspended Particulates, Biota, and Sediments of the St. Croix Estuary in Maine,
W77-04176 1009 5B

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

A Natural Pollution Experiment: The Effects of a Sewage Strike on the Fauna of the Thames Estuary,
W77-07124 1015 5C

Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

A Check List and Notes on the Birds of Sandvis, South West Africa,
W77-10089 1020 2L

The Influence of Salinity on the Growth of Some Plankton Diatoms from Brackish Water,
W77-10146 1021 5C

Sediments, Structural Framework, and Evolution of Delaware Bay, A Transgressive Estuarine Delta,
W77-10186 1021 2L

Synergistic Effects of Marine Pollution,
W77-10202 1021 5C

Metals in Organisms from Saldanha Bay and Langebaan Lagoon Prior to Industrialization,
W77-10205 1021 5C

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11525 1023 5C

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-11906 1023 2L

ESTUARINE FISH
Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

ESTUARINE FISHERIES
Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

ESTUARINE GEOCHEMISTRY
Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

ESTUARINE LAGOON
Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

ESTUARINE MICROORGANISMS
Some Effects of Petroleum on Estuarine and Marine Micro-Organisms,
W77-04063 1008 5C

ESTUARINE POLLUTION
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

Estuarine Pollution, A Bibliography, Volume 2.
W77-04109 1009 5B

Estuarine Pollution, A Bibliography, Volume 3.
W77-04110 1009 5B

Marine Pollution Research Titles.
W77-05383 1011 5A

ESTUARINE TRANSPORT
Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

ESTUARY
The Third London Airport Study,
W77-09037 1018 2L

A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

ETHANOL
An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

ETHANOLAMINE
Experimental Substantiation of the Maximal Permissible Concentrations of Triethanolamine, Ammonium and Calcium Salts of Alkylbenzosulfates in Water Bodies, (In Russian),
W77-03586 1007 5B

Ethanolamine Toxicity in Aquatic Invertebrates (In Romanian),
W77-05454 1011 5C

ETHION
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

ETHIOPIA
An Identification Key to the Water Mite Families of the Ethiopian Region,
W77-10192 1021 5A

ETHIOPIA (SIDAMO PROVINCE)
Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

ETHOPIA
Pleistocene Glaciation in Ethiopia: New Evidence,
W77-09124 1019 2C

ETHYLBUTYLAMINE
Some Experimental Data on the Study of the Biological Action of Ethylbutylamine as a Water Pollution Factor, (In Russian),
W77-08439 1017 5A

ETHYLENE DIBROMIDE
Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

ETHYLENE GLYCOL
Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

ETHYLENEDIAMINETRAACETIC ACID
Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

EUCALYPTUS-REGNANS
Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

EUCHLOROPHYCEAE
A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

EUGLENA
Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

EUGLENOPHYTA
Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

EUPHAUSIA PACIFICA
Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

EUPHAUSIIDS
Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

EUPHOTIC ZONE
Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

EUPHRATES RIVER
The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

EUPHRATES RIVER (IRAQ)
Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

EURASIAN WATERMILFOIL
Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

EUROPE
Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

Sedimentary Model for Intertidal Mudflat Channels, with Examples from the Solway Firth, Scotland,
W77-01629 1004 2L

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

Effect of Muskrats on Aquatic Vegetation, (In Russian),
W77-02925 1006 2I

Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

Fluctuations in the Waterlevel in Wells Due to Variations in Atmospheric Pressure,
W77-11606 1023 4B

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

EUROPIUM
Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

EUTAW FORMATION (MISS)
The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

EUTERIC BACTERIA
Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

EUTREPTIELLA-SP

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

EUTROPHICATION

The Effects of Various Tertiary Treatment Nutrient Removal Schemes on Periphyton Communities in Model Laboratory Streams,
W77-00005 1001 5C

Causes and Alternative Solutions to the Water Quality Problems of Big Stone Lake, Western Minnesota-Northeastern South Dakota,
W77-00047 1001 5C

Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

On the Eutrophication in the Lake Changja, (In Korean),
W77-00344 1001 5C

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

An Investigation into the Effect and Cause of Eutrophication in Georgetown Lake, Montana,
W77-00536 1002 5C

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

Nitrogen and Phosphorus in Wastewater Effluents. (A Preliminary Analysis of National Eutrophication Survey Data Collected During 1972-73 Sampling Period).
W77-00931 1002 5C

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

Composition of the Carbohydrate Complex of Aphanizomenon Flos-Aquae (L.) Ralfs, (In Russian),
W77-01209 1003 5C

A Preliminary Trophic Status Classification of Some South African Impoundments,
W77-01363 1003 5C

The Eutrophication Levels of Some South African Impoundments. I. Rietvlei Dam,
W77-01391 1003 5C

Eutrophication Levels of Some South African Impoundments. II. Hartbeespoort Dam,
W77-01392 1003 5C

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

National Eutrophication Survey: Data Acquisition and Laboratory Analysis System for Lake Samples,
W77-01788 1004 5A

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

1975 Annual Report of the Freshwater Biological Investigation Unit.
W77-01804 1004 5C

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02042 1004 5C

Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

Surveying America's Lakes.
W77-02375 1005 5C

Zooplankton of the Region of Nosy-Be: VI. Pteropods, Heteropods: I. Holoneritic and Internal-Neritic Species; Contribution to the Study of a Tropical Eutrophic Bay, (In French),
W77-02416 1005 5C

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

The Eutrophication Implications of Interactions Between Naturally Occurring Particulates and Methane Oxidizing Bacteria,
W77-02536 1005 5C

Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

Organic Phosphorus in Lakes,
W77-03210 1007 5C

The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

Lake Phosphorus Loading Graphs: An Alternative,
W77-03377 1007 5C

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

A Compendium of Lake and Reservoir Data Collected by the National Eutrophication Survey in the Northeast and Northcentral United States.
W77-03784 1008 5C

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

Algae Abstracts, A Guide to the Literature, Volume 3, 1972-1974.
W77-04111 1009 5C

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Great Lakes Nutrient Assessment,
W77-04163 1009 5C

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Land Use Patterns, Eutrophication and Pollution in Selected Lakes,
W77-04298 1009 5C

Phytoplankton Models and Eutrophication Problems,
W77-04499 1009 5C

Primary Organic Production in a Brackish Eutrophic Environment (Etang de Berre): Effects of Strong Dilution (From the Waters of the Durance), (In French),
W77-04587 1009 5C

The Distribution of Callitriche Obtusangula Legall in the Streams of the Friedberger au Region, (In German),
W77-04588 1009 5C

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

The Use of Oxygen Deficit Measurements as an Index of Eutrophication in Temperate Dimictic Lakes,
W77-05222 1011 5C

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Ybbarpsan-A Small Receptacle for a Large Industry: Limnological Study of the Ybbarpsan River, (In Swedish),
W77-05339 1011 5C

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Maine Lake Water Quality Strategy.
W77-06357 1013 5C

The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

History of the Phosphate Detergent Ban in Indiana,
W77-06378 1013 5G

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

Effects of Zooplankton Grazing on Nuisance Algal Blooms,
W77-06398 1013 5C

Presenting Trends in Lake Eutrophication,
W77-06693 1014 5C

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

Water Quality and Chemical Models,
W77-07246 1015 5C

Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

Effect of DDT on Photosynthesis of Selenstrum Capricornutum,
W77-07444 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Influence of the Drainage Basin on the Eutrophication of the a-Mesotrophic Lake Piaseczno and Diseutrophication of the Pond Lake Bikcze,
W77-07452 1015 5C

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

Algal Productivity of Natural and Artificially Enriched Fresh Waters in Malaya,
W77-07471 1015 5C

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

Wind Control of Algae Growth in Eutrophic Lakes,
W77-07497 1015 5G

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

The Role of Phosphate in Eutrophication. Stimulation of Plankton Growth and Residence Times of Inorganic Phosphate in Lake Kinneret Water,
W77-07517 1015 5C

Studies on the Typology of Baltic Lakes with Different States of Eutrophication, (In German),
W77-07576 1015 5B

Lake Restoration by Bottom Water Siphoning, (In German),
W77-07577 1015 5G

Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

Chemical Interactions in a Eutrophic Lake,
W77-08002 1016 5C

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

A Predictive Phosphorus Model for Lakes - Sensitivity Analysis and Applications,
W77-08499 1017 5C

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

Comparison of Eutrophication Models,
W77-09159 1019 5C

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

Interdependence Between Several Different Species of Algae Investigated in Cultures,
W77-09470 1019 5C

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

Eutrophication Potential of Dairy Cattle Waste Runoff,
W77-09509 1019 5C

Occurrence of Oscillatoria Agardhii Gom. in Some Shallow Eutrophic Lakes,
W77-09525 1019 5C

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Environmental Status of the Lake Michigan Region: Vol. 4. Phytoplankton of Lake Michigan,
W77-10056 1020 5C

Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

Chemical Inputs by a Colony of Franklin's Gulls Nesting in Cattails,
W77-10142 1021 5C

Detection of L-Aspartate: 2-Oxoglutarate Aminotransferase in Two Nitrogen-Fixing Cyanophyta,
W77-10223 1021 5C

Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

Red Tide in the Seto Inland Sea, (In Japanese),
W77-10509 1021 5C

Great Lakes Eutrophication: The Effect of Point Source Control of Total Phosphorus,
W77-10597 1021 5C

Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Development of Plankton Organisms of an Eutrophic Reservoir and their Interaction with a Radioactive Environment, (In Russian),
W77-11020 1022 5C

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

The Red Tides of Malta,
W77-11334 1022 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

The Intensive Production of Fresh Water Algae, (In Dutch),
W77-11506 1023 5C

Lakes Sorell and Crescent - A Tasmanian Paradox,
W77-11534 1023 5C

Vitamin B12 Contents in Sea Water Along the Coast of Fukuyama in 1970 and 1971,
W77-11535 1023 5C

Eutrophication Levels of Some South African Impoundments 3. Roodeplaat Dam,
W77-11568 1023 5C

Eutrophication Levels of Some South African Impoundments. IV. Vaal Dam,
W77-11575 1023 5C

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

Our Shining Waters. A Film on Lake Eutrophication,
W77-12266 1024 6B

Limnological Studies on the Three Dammed Lakes, Constructed in the Watercourse of the Monobe River, Kochi Prefecture, (In Japanese),
W77-12364 1024 5C

Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

EUTROPHICATION PREDICTION
Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

EVALUATION
Is Nutrient Removal Worthwhile,
W77-00065 1001 5D

Social Impact Assessment: An Overview,
W77-00103 1001 6B

Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

Substitute Chemical Program: Initial Scientific and Minieconomic Review of Malathion,
W77-00192 1001 5C

Evaluation of Recreational Sites,
W77-00387 1001 6B

Value of Time in Recreation Benefit Studies,
W77-00710 1002 6B

Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

A Course Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

Evaluating Environmental Quality Management Programmes in Which Dischargers are Grouped,
W77-01170 1003 5G

Impact Studies and the Evaluation of Public Projects,
W77-02062 1004 6B

Energy Development: The Environmental Tradeoffs. Vol. 2: Relative Environmental Assessment of Methods to Increase Energy Production, Crude Oil, Pipeline Quality Gas, and Electricity from Western Coal,
W77-02423 1005 6G

Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

Investigation into Methods for Developing a Physical Analysis for Evaluating Instream Flow Needs,
W77-04296 1009 2E

Water Resources Technology Transfer -- A Guide,
W77-04346 1009 10F

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

Evaluation of Water Quality Models: A Management Guide for Planners,
W77-04507 1009 5G

An Evaluation of Land Treatment of Municipal Waste Water and Physical Siting of Facility Installations,
W77-04635 1010 5D

An Evaluation of Title III Water Resources Planning Grants in States,
W77-04902 1010 6E

Economic Models,
W77-05017 1010 6A

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Evaluating Water Quality Impacts of Small Streams on Major Urban Rivers,
W77-05249 1011 5C

Options for Improving Water Quality,
W77-05252 1011 5G

Environmental Impacts of Land use Change,
W77-05922 1012 6G

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

Proposed Hydrologic Analyses of Streamflow for Brazil,
W77-06343 1013 2E

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Hydrological Evaluation of Changes in Runoff Characteristics,
W77-06732 1014 4A

The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

Broadening the Approach to Evaluation in Resources Management Decision-Making,
W77-07545 1015 6B

Power Plant Site Evaluation: The Case of the Sharon Plant in Israel,
W77-07546 1015 6G

Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

Methodological Problems in Estimating Recreational Demand Functions and Evaluating Recreational Benefits,
W77-08007 1016 6B

Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

Watershed Organizations--Impact on Water Quality Management: An Analysis of Selected Michigan Watershed Councils,
W77-08093 1016 4D

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

Waste Water Aeration System Produces Small Bubbles.
W77-08630 1018 5D

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

A Methodology for Comparative Evaluation of Water Quality Indices,
W77-09632 1020 5A

Evaluation of Cellulose Acetate Membranes for Reverse Osmosis Separation,
W77-09863 1020 5D

Water Resources Assessment Methodology (WRAM)--Impact Assessment and Alternative Evaluation,
W77-09985 1020 6G

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

A Methodology for Assessing Land Application of Sludges and Wastewaters,
W77-10635 1021 5E

Preliminary Evaluation of the 1976 Rain Modification Project in Central Illinois,
W77-10774 1021 3B

Strain Meters and Stress Meters for Embedment in Models of Mass Concrete Structures; Report 2, Evaluation of Microdot Embedment Strain Gage,
W77-10785 1021 8G

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

Consultant Looks at 208 Program,
W77-11166 1022 6E

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

Procedures for the Evaluation of Engineering Alternatives,
W77-11771 1023 6B

Planning, Executing and Profiting from Polymer Trials,
W77-12425 1024 5D

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

EVALUATION STUDIES

Impact Studies and the Evaluation of Public Projects,
W77-02062 1004 6B

EVALUATION SYSTEMS

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

National Cancer Institute Program of Cancer Surveillance, Epidemiology and End Results Reporting (Seer Program),
W77-02843 1006 5A

EVAPORATION

A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

An Evaporation Equation for an Open Body of Water Exposed to the Atmosphere,
W77-01338 1003 2D

Use of Constant Level Jain Evaporimeter in Scheduling Irrigation,
W77-01907 1004 2D

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

Vegetative Water Use in California, 1974.
W77-03554 1007 3F

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-II. Simulated Effect of Variations in Environmental Conditions, Leaf Properties, and Surface Water Characteristics,
W77-03758 1008 2D

Space-Time Correlation Function of the Field of Evaporation from the Water Surface,
W77-03849 1008 2D

Evaporation and Advection I: Evaporation from Extensive Homogeneous Surfaces,
W77-03859 1008 2D

Treatment of Wood Preserving Wastewater,
W77-04181 1009 5D

Effect of Evaporation Time and Temperature on Water Loss in Calcareous Soil,
W77-04323 1009 2D

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

Prediction of Evaporation from Columns of Soil During Alternate Periods of Wetting and Drying,
W77-04764 1010 2G

Evapotranspiration--Some Growth Areas,
W77-04777 1010 2D

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

Calculating Evaporation from Native Grassland Watersheds,
W77-05442 1011 2D

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

Evaporation and Advection II: Evaporation Downwind of a Boundary Separating Regions Having Different Surface Resistances and Available Energies,
W77-06897 1014 2D

Profiles and Evaporation,
W77-06898 1014 2D

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

Evaporation from Seven Reservoirs in the Denver Water-Supply System, Central Colorado,
W77-08736 1018 2D

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Estimated Evapotranspiration and Irrigation Requirements for Citrus,
W77-09406 1019 2D

Experiences with the Use of the Aerological Method in Evaporation Studies in Northwestern Europe,
W77-09710 1020 2D

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

Evaporation from a Warm, Wavy Surface: A Laboratory Study,
W77-09954 1020 2D

Parameterization of Surface Evaporation Rate for Use in Numerical Modeling,
W77-10111 1021 2D

Influence of Row Spacing and Straw Mulch on First Stage Drying,
W77-10286 1021 2D

Processing of Industrial Waste for Solar Evaporation,
W77-10337 1021 5D

Field Study of Evaporation - Analysis of Data From Eucumbene, Cataract, Manton and Mundaring,
W77-10376 1021 2D

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

Substantiation of the Priestley and Taylor Parameter Alpha = 1.26 for Potential Evaporation in High Latitudes,
W77-11599 1023 2D

Estimating Evaporation and Transpiration from a Row Crop During Incomplete Cover,
W77-11947 1023 3F

New Technique for Measuring the Water Potential of Detached Leaf Samples,
W77-12117 1023 7B

Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

EVAPORATION CONTROL
Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Water Quality Effect of Diking a Shallow Arid-Region Lake,
W77-02871 1006 5C

Water Loss from Snowdrifts Under Oasis Conditions,
W77-04174 1009 3B

Effect of Evaporation Time and Temperature on Water Loss in Calcareous Soil,
W77-04323 1009 2D

Suppression of Evaporation Losses from Snowpacks,
W77-05123 1011 3B

EVAPORATION PANS
Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

EVAPORATION PONDS
Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

EVAPORATION RATES
Evaporation from a Warm, Wavy Surface: A Laboratory Study,
W77-09954 1020 2D

Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

EVAPORATIVE COOLING
Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

EVAPORATIVE COOLING (PEACH TREES)
Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

EVAPORATORS
Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

Evaporation of Treated Waste Water,
W77-12945 1024 5D

EVAPORIGRAPH
Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

EVAPORIMETERS
Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

Use of Constant Level Jain Evaporimeter in Scheduling Irrigation,
W77-01907 1004 2D

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

EVAPORTRANSPIRATION
Catchment Research at Zachariashoek,
W77-01386 1003 4D

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

EVAPOTRANSPIRATION
Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Water Use on Rangelands,
W77-00846 1002 3B

Accuracy of Evapotranspiration Rates Determined by the Water-Budget Method, Gila River Flood Plain, Southeastern Arizona,
W77-00868 1002 2D

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W77-01424 1003 2D

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

Evapotranspiration Model Tested for Soybean and Sorghum,
W77-02550 1005 2D

The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

Computation of the Potential Evapotranspiration and Their Comparison with Values of the Actual Evapotranspiration of Lysimeters, (In German),
W77-03118 1007 2D

Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

Vegetative Water Use in California, 1974.
W77-03554 1007 3F

Effect of Dew on Leaf Water Potentials and Crop Resistances in a Paspalum Pasture,
W77-03736 1008 3F

The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

Evapotranspiration--Some Growth Areas,
W77-04777 1010 2D

Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

Calculating Evaporation from Native Grassland Watersheds,
W77-05442 1011 2D

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Evapotranspiration of a Douglas Fir Determined with a Weighing Lysimeter,
W77-05959 1012 2D

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Evaluation of Thermal X/5-Detector Skylab S-192 Data for Estimating Evapotranspiration and Thermal Properties of Soils for Irrigation Management,
W77-08079 1016 7B

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Estimated Evapotranspiration and Irrigation Requirements for Citrus,
W77-09406 1019 2D

Evaluation of an Evapotranspiration Model for Corn,
W77-09941 1020 2D

Consequences of Groundwater Extraction on Evapotranspiration and Saturated-Unsaturated Flow,
W77-10422 1021 4B

Water Requirements for Mesquite (Prosopis Juliflora),
W77-10770 1021 2D

Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

Assessment of Water Loss Patterns with Microlysimeters,
W77-11115 1022 2D

Determination of Regional Evapotranspiration from Upper Air Meteorological Data,
W77-11211 1022 2D

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

Evaluation of Resistance and Mass Transport Evapotranspiration Models Requiring Canopy Temperature Data,
W77-11396 1022 2D

Note on Evapotranspiration by Profile-Depletion Method in Deep Vertisol,
W77-11632 1023 2D

The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

Estimating Evaporation and Transpiration from a Row Crop During Incomplete Cover,
W77-11947 1023 3F

Water Transport in Wheat Plants in the Field,
W77-11949 1023 3F

Evapotranspiration and Water Use Efficiency by Soybean Lines Differing in Growth Habit,
W77-11965 1023 3F

Evapotranspiration and Soil Water Movement Beneath the Root Zone of Irrigated and Nonirrigated Millet (Panicum Miliaceum),
W77-12315 1024 2D

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

Development and Evaluation of Evapotranspiration Models for Irrigation Scheduling,
W77-12779 1024 3F

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

EVAPOTRANSPIRATION CONTROL

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

EVERGLADES

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

EVERGLADES (FLORIDA)

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

EVERGLADES NATIONAL PARK

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

EVERGREEN FORESTS

The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

EVERGREEN LAKE (ILL)

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

EVERGREEN SHRUBS

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

EVIDENCE

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

Payne v Whiting (Upper Riparian Owner Responsible for Surface Runoff Damages).
W77-09570 1019 6E

EVOLUTION

The Evolution of the Australian Deserts,
W77-11112 1022 2A

EXCAVATING EQUIPMENT

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

EXCAVATION

Excavated Sediment Traps Prove Superior to Dammed Ones,
W77-00797 1002 4D

Conference on Research in Tunneling and Excavation Technology,
W77-06885 1014 8E

Deep Wells For Dewatering Offer Real Advantages, Part II,
W77-08325 1017 4B

EXCESS GAS ELIMINATION

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

EXCESS RAIN

Overland-Flow Travel Time Versus Reynolds Number,
W77-05149 1011 2E

EXCESS WATER (SOILS)

Desalination of Soils of Menofeya Governorate Put Under Tile Drainage,
W77-04322 1009 2G

A Study of Habitat Water Regime of Inundated Meadows Near Osijek, (In Croatian),
W77-04582 1009 2G

EXCESSIVE PRECIPITATION

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

Predictability of Effects of a Severe Local Storm in Pennsylvania,
W77-07369 1015 2B

Characteristics of the Severe Rainstorm,
W77-07784 1016 2B

Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

EXCHANGEABLE SODIUM PERCENTAGE

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

EXCITED STATES

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

EXCLUSIVE RIGHTS

Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

EXCRETION

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

EXEMPTION (WASTE DISPOSAL)

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

EXOPHTHALMIA

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

EXOPTHALMIA

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

EXPANSIVE SOILS

On the Validity of the Theory of Flow in Saturated Swelling Materials,
W77-03280 1007 2G

Infiltration and Water Movement in an in Situ Swelling Soil During Prolonged Ponding,
W77-03281 1007 2G

EXPECTED OPPORTUNITY LOSS

Economic Optimum Record Length,
W77-00117 1001 4A

EXPENDITURES

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

EXPERIMENTAL DATA (RAINFALL)

Laboratory Investigation of Rainfall Retention and Transmission in Fresh Snow,
W77-09322 1019 2B

EXPERIMENTAL DESIGN

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

EXPERIMENTAL ENCLOSURES

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

EXPERIMENTAL FARMS

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

EXPERIMENTAL LAKES AREA (CANADA)
Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Methane Oxidation in a Eutrophic Canadian Shield Lake,
W77-09608 1020 5C

EXPERIMENTAL LAKES (CANADA)
Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

EXPERIMENTAL SYSTEM IDENTIFICATION
On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

EXPLOITATION
Offshore Mineral Resource Exploitation: The State and Federal Response,
W77-10471 1021 6E

EXPLORATION
Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

Comparative Efficiency of Geophysical Prospecting Techniques in Water-Saturated Sands,
W77-01361 1003 2F

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-01366 1003 4B

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

Petroleum Legislation in the North Sea Countries,
W77-09542 1019 6E

Electrical Water Prospecting.
W77-10100 1020 2F

Two-Dimensional Searches for High-Yield Well Sites,
W77-10967 1022 8B

EXPLOSION
A Chemical Monitoring Program of the Explosion Products in Underwater Explosion Tests,
W77-09242 1019 5G

EXPLOSIONS
Use of Intrinsically Safe Instrumentation.
W77-03462 1007 5A

The Influence of Underwater Explosion on Fish, (In Japanese),
W77-07316 1015 8H

EXPLOSIVES
Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Removing Explosives from Wastewater,
W77-08266 1017 5D

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

EXPONENTIAL DIFFUSIVITY
A Comparison of Techniques for Solving the Diffusion Equation with an Exponential Diffusivity,
W77-05162 1011 2G

EXTENDED AERATION
Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Occupational Characteristics and Biological Kinetic Constants of Extended Aeration Process,
W77-08270 1017 5D

EXTENDED PERIOD SIMULATION
WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

EXTERNALLY STRESS-RELIEVED DRILL COLLARS
Field Application of Externally Stress-Relieved Drill Collars,
W77-04130 1009 8G

Collars with er Grooves Had Fewer Connection Failures,
W77-04285 1009 8G

EXTRACTIVE USE
Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

EXTRAPOLATION TECHNIQUES
Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

EXTREME FLOWS
Water Resources Data Bank in New Jersey and Computations of Extreme Flows,
W77-10830 1022 7C

EXTREME VALUES
Some Remarks on the Statistical Theory of Extreme Values,
W77-10786 1021 2A

Floods and Droughts,
W77-10788 1021 2E

EXUDATION
Extracellular Release in Planktonic Bacteria,
W77-07996 1016 5C

EXUVIELLA BALTICA
Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

EYE ABNORMALITIES
Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

F-PLANE SOLUTINS
Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

FACIES
Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

FACILITIES
Specific Grants of Power (Condemnation and Rights-of-Way).
W77-03493 1007 6E

The California State Water Project in 1975.
W77-03551 1007 6B

Siting of Major Energy Facilities.
W77-09459 1019 6G

How to Conduct a Wastewater Survey, Part I - Identifying Physical Characteristics of Sewer Systems,
W77-12465 1024 5G

FACTIONATION (IRON)
Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

FACTOR ANALYSIS
Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

A Factor Analysis of Socioeconomic Change in the Tennessee River Watershed,
W77-11767 1023 6B

FAGACEAE
The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

FAILURES
Alarm System Continually Monitors Plant Functions,
W77-02382 1005 8C

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

FAIRFAX COUNTY (VA)
Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
W77-09071 1018 4C

FALKLAND ISLANDS
The Maximum Extent of Glaciers in Part of West Falkland,
W77-09032 1018 2C

FALL CREEK (NY)
Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

Nitrate Dynamics in Fall Creek, New York,
W77-09431 1019 5B

FALLOUT
Black and White Episodes,
W77-06364 1013 5A

The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

FALSE COLOR INFRARED IMAGERY
Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

FARM EQUIPMENT
New Soil Implement Makes a Good Impression,
W77-11096 1022 3F

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

FARM LAGOONS
Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

FARM MANAGEMENT
Erosion Potential of Soils,
W77-00776 1002 2J

Sediment Yields from a Mississippi Delta Watershed,
W77-00784 1002 4D

The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

FARM PONDS
McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

Wood V Woodcock (Rights of Adjoining Landowners to Seepage Water from Joint Irrigation Ditch),
W77-07278 1015 6E

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

FARM WASTE
Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

FARM WASTES
Tertiary Treatment and Reuse of Animal Wastes,
W77-00158 1001 5D

Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

Proceedings of Conference on Farm Animal Wastes: 'Farmer Experiences, Codes, Guidelines, Research Progress, Equipment'.
W77-01521 1003 5G

A Review of Animal Waste Regulations Around the Nation,
W77-01523 1003 5G

Animal Waste Problems Now Facing the Department of Natural Resources,
W77-01525 1003 5G

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Manure Disposal, Pollution Control, and the New York Dairy Farmer,
W77-01528 1003 5D

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

Livestock Waste Management with Pollution Control.
W77-01534 1003 5D

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

An Ecological Blueprint for Today.
W77-01548 1003 5D

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

Isolated Strains of Escherichia Coli from the Water Supply and Residual Waters of Large Hog Farms, (In French),
W77-01589 1004 5A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

The Influence of High Quantities of Manure on Soil Water, and Plants, (In German),
W77-02387 1005 5G

A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 1006 5C

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Treatment of Livestock Wastes by a Barriered Landscape Water Renovation System,
W77-03116 1007 5D

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas Which May Contribute to Drinking Water Supplies. A Preliminary Review,
W77-04128 1009 5B

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution Control Act Amendments,
W77-04347 1009 5G

EPA Sets Final Rules on Feedlot Permits.
W77-04603 1010 5G

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

Land Application of Waste Materials.
W77-04607 1010 5B

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

Final Pollution Rules Released,
W77-04609 1010 5G

Handling Dairy Wastes,
W77-04610 1010 5B

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

Confined Animals and Public Environment,
W77-04617 1010 5B

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Farm Waste Composting Process.
W77-04619 1010 5B

Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Large-Scale Management Systems and Environmental Protection,
W77-04623 1010 5G

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Kearney Feeder's Early Effort Earns Environmental Award.
W77-04628 1010 5G

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Methane From Farm Wastes,
W77-04630 1010 5B

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution and Control Act Amendments on Agriculture,
W77-05047 1010 5G

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

Relation Between the Amounts of Fertilizer and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: II. On the Relation Between Livestock Waste Per Unit Area of Basin and the Specific Load of Pollutants in Main Streams Flowing into Nishiura Lake Basin, (In Japanese),
W77-07569 1015 5B

An Investigation on the Disposal of Pig Excreta in Kasumigaura Area, (In Japanese),
W77-07571 1015 5B

Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

The Role of Systems Analysis in the Use of Agricultural Wastes,
W77-09282 1019 5G

Dairy Manure Can Be Used Safely,
W77-09389 1019 5G

Control of Water Pollution from Cropland: Volume II--An Overview.
W77-09390 1019 5G

Water Management Aspects of the Agricultural Utilization of Liquid Manure and Preliminary Expenditure Standards, (In German),
W77-09391 1019 5G

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Design Parameters for Animal Waste Treatment Systems - Nitrogen Control,
W77-09393 1019 5D

Design Criteria for Swine Waste Treatment Systems,
W77-09394 1019 5D

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Manure Harvesting Practices: Effects on Waste Characteristics and Runoff,
W77-09396 1019 5D

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Livestock and the Environment, A Bibliography with Abstracts--Volume III,
W77-09398 1019 5D

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Eutrophication Potential of Dairy Cattle Waste Runoff,
W77-09509 1019 5C

Application of the Rotating Flighted Cylinder to Livestock Waste Management,
W77-09795 1020 5D

Agricultural Wastes in Fish Farming. A Commercial Application of the Culture of Single-Celled Organisms for Protein Production,
W77-10050 1020 5E

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

Adaptation to Nitrification of Activated Sludge Systems Treating Highly Nitrogenous Waters,
W77-11706 1023 5D

Accumulation of Nutrients in Soil Beneath Hog Manure Lagoons,
W77-11967 1023 5B

Hog Manure Worth $3.50 Per Ton as Fertilizer.
W77-11969 1023 5B

Animal Wastes Management,
W77-11970 1023 5G

The Implication of Hydrogeologic Factors in Waste Management on Land (With Special Reference to the Nova Scotia Environment),
W77-11971 1023 5G

Impact of Hatchery Wastewater Irrigation Upon Contiguous Stream Quality,
W77-11973 1023 5D

EPA Will Use KSU Model as Waste Systems Tool.
W77-11978 1023 5G

Using Liquid Poultry Wastes in Woodlands,
W77-11979 1023 5E

Uniform Slurry Spreading with a Center Pivot Irrigation System,
W77-12612 1024 5D

Fate of Salts from Water and Manure in a 4-Year Field Experiment,
W77-12755 1024 5G

FARMINGTON GLADE (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

FARMINGTON (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

FARMS
Wastewater Sludge as a Fertilizer Substitute,
W77-00046 1001 5E

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas which May Contribute to Drinking Water Problems,
W77-03567 1007 5B

FAST ICE
Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

FATE OF OIL
The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

FATHEAD MINNOW
Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

FATHEAD MINNOWS
Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

FATTY ACIDS
Volatile Fatty Acids in Bottom Deposits of the Rybinsk Reservoir, (In Russian),
W77-00126 1001 5C

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

FAULTS (GEOLOGIC)
Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

FAULTS (GEOLOGY)
Fault Control of Subsidence, Houston, Texas,
W77-08662 1018 4B

FAUNA
Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

FAUNAL COMPOSITION
Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

FEASIBILITY
Ammonia Removal from Wastewater by Ligand Exchange,
W77-03367 1007 5D

The Feasibility of Oyster Raft Culture in East Coast Estuaries,
W77-04559 1009 2L

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

FEASIBILITY STUDIES
Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Denitrification of Wastewater Effluents with Methane,
W77-00609 1002 5D

Grown Organic Matter as a Fuel Raw Material Resource,
W77-00700 1002 3F

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Denitrification of Nitrified Septic Tank Effluent,
W77-02347 1005 5D

Polymers Cut Cost of Phosphorus Removal,
W77-02374 1005 5D

Oceanographic Commission,
W77-04359 1009 6E

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

The Waste Water Treatment Bergstrasse - Possibilities and Selection of the Sludge Treatment (Die Klaeranlage Bergstrasse - Moeglichkeiten und Wahl des Schlammbehandlungs-systems),
W77-11711 1023 5D

FEASIBILTY STUDIES
Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

FECAL COLIFORM
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

FECAL CONTAMINATION
Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

FECAL STEROLS
The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

FECUNDITY
Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

On a Snail's Chances of Becoming a Year Old,
W77-06290 1013 5C

Notes on the Nesting Success and Fecundity of the Anemonefish Amphiprion Clarkii at Miyake-Jima, Japan,
W77-06763 1014 5C

FEDERAL BUDGET
Federal Water Resources Research Program for 1973 and 1974, Committee on Water Resources Research of the Federal Council for Science and Technology, (1976).
W77-00531 1002 9D

EPA Proposes Untimely Amendments,
W77-08970 1018 5G

FEDERAL CIVIL PROCEDURE
Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

FEDERAL COASTAL ZONE MANAGEMENT ACT OF 1972
State Coastal Management Programs,
W77-05035 1010 6E

FEDERAL GOVERNMENT

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

Lake Washington Ship Canal,
W77-01001 1002 6E

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

The National Flood Insurance Act of 1968 and Flood Plain Zoning in Arkansas, Nebraska, North Dakota, Mississippi, Tennessee, South Dakota, and Kansas,
W77-01099 1003 6E

Directory to U.S. Geological Survey Program Activities in Coastal Areas, 1974-76,
W77-02011 1004 2L

Current EPA Research Activities in Solid Waste Management,
W77-02396 1005 5E

Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

Water Law and Administration in the United States,
W77-04356 1009 6E

Environmental Protection Agency: Petroleum Refining Point Source Category.
W77-04376 1009 5G

A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

Upper West Fork River Watershed v Corps of Engineers (Construing an Environmental Impact Statement for a Proposed Dam Project).
W77-05073 1010 6E

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

U.S. Environmental Protection Agency Environmental Research Outlook FY 1976 Through 1980 (Report to Congress).
W77-08120 1017 6G

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

American Petroleum Institute V Environmental Protection Agency (Challenge to EPA Standards for Refineries Under the FWPCA Amendments of 1972).
W77-08394 1017 6E

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Confiscation of Indian Winter's Rights in the Upper Missouri River Basin,
W77-11154 1022 6E

Save Our Invaluable Land, Inc v Needham (Applicability of FWPCA Amendments to Projects Already Funded).
W77-11199 1022 6E

E I Dupont De Nemours and Company v Train (Review of Effluent Limitations for Chemical Industry).
W77-11201 1022 6E

Chapman v United States (Tort Liability for Submerged Dam in Navigable Stream).
W77-11202 1022 6E

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

FEDERAL JURISDICTION

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

Federal Regulation of Development in Flood-Prone Wetlands--The Army Corps of Engineers,
W77-01094 1003 6E

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Federal Statutory Modification of Private Water Rights in South Florida,
W77-08112 1017 6E

Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

Mianus River Preservation Committee V. Administrator, Environmental Protection Agency (Jurisdiction of Federal Appeals Court for Permits Issued by State Agency Under NPDES).
W77-09001 1018 6E

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

Every Pond and Puddle--Or, How Far Can the Army Corps Stretch the Intent of Congress,
W77-11165 1022 6E

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

FEDERAL JURISIDICTION

Sections 9 and 10 of the Rivers and Harbors Act of 1899: Potent Tools for Environmental Protection,
W77-11470 1022 6E

FEDERAL LAWS

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

Planning for Implementation Under Section 208,
W77-11776 1023 5G

FEDERAL POLLUTION CONTROL ACT AMENDMENTS OF 1972

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

FEDERAL POWER ACT

State V Oroville-Wyandotte Irrigation District (Inherent Duality of the Federal Power Act).
W77-09582 1019 6E

FEDERAL PROJECT POLICY

Federal Water Resources Research Program for 1973 and 1974, Committee on Water Resources Research of the Federal Council for Science and Technology, (1976).
W77-00531 1002 9D

Planning Level and Program Impact Statements under the National Environmental Policy Act: A Definitional Approach,
W77-00705 1002 6G

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Substantive Rights Under the National Environmental Policy Act,
W77-02067 1004 6E

Report on Tenth Annual Water Resources Research Conference, Sponsored by Office of Water Research and Technology, April 9-10, 1975.
W77-03206 1007 9D

California Water Project: Law and Politics,
W77-03583 1007 6E

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

FEDERAL RECLAMATION LAW

California Water Project: Law and Politics,
W77-03583 1007 6E

Validity, Construction, and Application of S 5 of Reclamation Law of 1902 (43 USCS S 431),
W77-03712 1008 6E

What's Really Happening in Westlands,
W77-04921 1010 6E

United States V Tulare Lake Canal Company (Reclamation Laws Concerning Sale of Land in Excess of 160 Acres).
W77-08151 1017 6E

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

The Class One Equivalency for Certain Reclamation Projects (Hearings on H.R. 13101, Which Provides for Consideration of the Comparative Production Potential of Irrigable Lands in Determining Nonexcess Acreage Under Federal Reclamation Laws).
W77-11446 1022 4B

Reclamation Law in Litigation: Acreage and Residency Limitations on Private Lands,
W77-12889 1024 6E

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

FEDERAL RESERVATIONS

Riparian Rights Revisited: Legal Basis for Federal Instream Flow Rights,
W77-11465 1022 6E

FEDERAL-SSTATE WATER RIGHTS CONFLICTS

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

FEDERAL-STATE WATER CONFLICTS

Looking Ahead (Federal Water Pollution Control Act of 1972).
W77-07235 1015 6E

FEDERAL-STATE WATER RIGHTS CONFLICTS

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

Water Laws of the United States: The Deficiencies and Degree of Effectiveness,
W77-04355 1009 6E

State of North Carolina V Federal Power Commission (Rivers Designated for Potential Addition to the System Under the Wild and Scenic Rivers Act).
W77-06069 1012 6E

House Committee Marks up HR 9560,
W77-07236 1015 5G

Amend the Federal Boat Safety Act of 1971 (Hearings on S. 3214 to Declare Certain Waters of New Hampshire to Be Non-navigable for Certain Purposes).
W77-07255 1015 6E

Federal Statutory Modification of Private Water Rights in South Florida,
W77-08112 1017 6E

States Need Freedom to Innovate (Comment on PL 92-500).
W77-08119 1017 6E

States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
W77-08365 1017 6E

PL 92-500: New Federalism or Federal Takeover,
W77-08972 1018 6E

As an Incident of National Sovereignty, the United States Has Paramount Rights and Power in the Seabed and Subsoil of the Outer Continental Shelf,
W77-08974 1018 6E

State V Oroville-Wyandotte Irrigation District (Inherent Duality of the Federal Power Act).
W77-09582 1019 6E

The McCarren Amendment and Indian Tribes' Reserved Water Rights,
W77-10453 1021 6E

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

United States v Brown (State Waters Within National Parks Subject to Federal Regulations).
W77-11185 1022 6E

Riparian Rights Revisited: Legal Basis for Federal Instream Flow Rights,
W77-11465 1022 6E

FEDERAL WATER POLLUTION ACT

Advanced Sewage Treatment Fails Cost-Environmental Benefit Test.
W77-12431 1024 5G

FEDERAL WATER POLLUTION CONTROL ACT

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

Train V Colorado Public Interest Research Group, Inc. (Conflict of Federal Water Pollution Control Act and the Atomic Energy Act).
W77-00987 1002 6E

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

Of Slime and the River,
W77-01084 1003 5B

National Effluent Standards,
W77-02061 1004 5G

Implications of the Water Pollution Control Act of 1972 for the Mineral Resources Industry, A Survey.
W77-02806 1006 5G

Virginia State Program for Control of Discharge of Pollutants to Navigable Waters; Approval.
W77-03527 1007 5G

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

The Muddy Road to Clean Water,
W77-03587 1007 5G

Section 208 Program Review, (Environmental Protection Agency), (Draft).
W77-03686 1008 5D

Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

Benefits from Water Pollution Abatement, Recreation.
W77-04299 1009 5G

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution Control Act Amendments,
W77-04347 1009 5G

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Mineral Mining and Processing Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources for Pretreatment Standards for Incompatible Pollutants.
W77-04374 1009 5G

Environmental Protection Agency: Petroleum Refining Point Source Category.
W77-04376 1009 5G

Environmental Protection Agency: Inorganic Chemicals Manufacturing Point Source Category.
W77-04377 1009 5G

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Effluent Guidelines and Standards: Plastics and Synthetics Manufacturing Point Source Category,
W77-04928 1010 5G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

Control and Treatment of Waste Water,
W77-06185 1013 5G

P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Control of Agricultural Water Pollution: A Continuing Regulatory Dilema,
W77-07233 1015 5G

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

1976 Needs Survey Markedly Lower,
W77-07878 1016 5G

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Leadville Mine Drainage Tunnel Act of 1976.
W77-08115 1017 6E

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

The 1972 Water Pollution Control Act: Unforeseen Implications for Land Use Planning,
W77-08373 1017 5G

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Section 208 and Section 303 Water Quality Planning and Management: Where is it Now,
W77-08949 1018 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

PL 92-500: A Dose of Chaos,
W77-08959 1018 5G

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

Enforcement of Municipal Permits: Portent of Problems,
W77-08971 1018 6E

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

Toxic Pollutant Effluent Standards for Aldrin/Dieldrin, DDT, Endrin, and Toxaphene,
W77-08983 1018 5G

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

New Opportunities for State Participation in the Control of Radioactive Pollution,
W77-09539 1019 5G

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

Tanners' Council of America V Train (Review of Effluent Limitations for Tanning Industry).
W77-09578 1019 6E

Proceedings: Workshop on Non-Point Sources of Water Pollution.
W77-10159 1021 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

Plastics and Synthetics Manufacturing Point Source Category, Effluent Limitations and Guidelines.
W77-10474 1021 5G

Consultant Looks at 208 Program,
W77-11166 1022 6E

Save Our Invaluable Land, Inc v Needham (Applicability of FWPCA Amendments to Projects Already Funded).
W77-11199 1022 6E

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

State Water Control Board V Train (State Compliance with Effluent Limitation Deadline Mandatory Under the Federal Water Pollution Control Act Amendments).
W77-11456 1022 6E

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

Louisiana Pacific Corporation and Crown Simpson Pulp Company (Requests for Variances from BPCTCA).
W77-11459 1022 5G

Aquaculture Projects.
W77-11460 1022 5G

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

Short Course Proceedings - Applications of Stormwater Management Models, 1976,
W77-12074 1023 6A

Scientific and Technical Evaluation of the Environmental Protection Agency's Wastewater Facilities Planning, Boston Case Study, Phase I: Water Quality Considerations,
W77-12472 1024 5G

Role of Models in Urban Stormwater Management Planning,
W77-12491 1024 5G

Implementation of the Federal Water Pollution Control Act (Review of the Southwest Sewer District, Suffolk County, Long Island, New York).
W77-12903 1024 5G

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS

Public Law 92-500 Economic and Social Impacts: Technical Volume.
W77-04307 1009 5G

FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS (1972)

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972

Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

Water Pollution Control Act of 1972, Economic Impacts, Grain Milling.
W77-01954 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Columbia River.
W77-01955 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
W77-01956 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Housatonic River,
W77-01957 1004 5G

Strategic Environmental Assessment System, Residuals Forecasting, An Analysis of Results,
W77-01958 1004 5G

Water Pollution Control Act of 1972, Economic Impacts, Pilot Study, Five Industries,
W77-01959 1004 5G

Water Pollution Control Act of 1972, Economic Impacts, Chemical and Allied Industries,
W77-01960 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Guadalupe-San Antonio River Basin,
W77-01962 1004 5G

Water Pollution Control Act of 1972, Costs and Capabilities, Water Treatment Systems,
W77-01963 1004 5D

November 1975 Staff Draft Report: Review and Comment,
W77-01965 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Gulf of Alaska.
W77-01966 1004 5G

Capital Markets and Water Quality Needs: 1975-1985.
W77-01967 1004 5G

Water Quality Analysis, The Potomac River.
W77-01968 1004 5G

Environmental Impact Assessment, Water Quality Analysis, S. California Bight.
W77-01969 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Hawaii.
W77-01970 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Puerto Rico.
W77-01971 1004 5G

Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

Water Pollution Control Law of 1972, Regional Impacts, Kanawha River.
W77-01975 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River (Maine).
W77-01977 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Delaware River Basin, (Parts 1, 2, and 3).
W77-01978 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Great Lakes-Lake Erie, (Volumes 1, 2, and 3).
W77-01979 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Chattahoochee-Flint-Apalachicola, (Parts 1 and 2).
W77-01980 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Ohio River Basin, (Volumes 1 and 2).
W77-01981 1004 5G

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

Disposal of Wastewater Residuals, (Volumes 1 and 2).
W77-01984 1004 5E

Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Benefits from Water Pollution Abatement, Recreation.
W77-04299 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 16 Paint and Ink Formulation and Printing.
W77-04301 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries Category 7, Dairy Products.
W77-04302 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Industry Category 1a, Ore Mining and Milling.
W77-04303 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, Direct and Cumulative Industry Impacts.
W77-04304 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, Incidence of Costs, Distribution of Water Pollution Control Costs.
W77-04306 1009 5G

Water Pollution Control Act of 1972 Regional Impacts Houston Ship Channel/Galeston Bay.
W77-04309 1009 5G

Residual Waste: Model State Legislation,
W77-04905 1010 5G

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Looking Ahead (Federal Water Pollution Control Act of 1972).
W77-07235 1015 6E

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

United States V Ashland Oil and Transportation Company (Use of the Word 'Navigable Waters' in the Federal Water Pollution Control Act Amendments of 1972 Held to Mean 'Waters of the United States').
W77-07273 1015 6E

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Appliciable to Interstate Controversey Only),
W77-07276 1015 6E

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

The 1972 Water Pollution Control Act: Unforeseen Implications for Land Use Planning,
W77-08373 1017 5G

Section 208 and Section 303 Water Quality Planning and Management: Where is it Now,
W77-08949 1018 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

PL 92-500: New Federalism or Federal Takeover,
W77-08972 1018 6E

Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Mianus River Preservation Committee V. Administrator, Environmental Protection Agency (Jurisdiction of Federal Appeals Court for Permits Issued by State Agency Under NPDES).
W77-09001 1018 6E

Pollution of the Interstate and Intrastate Waters of the Upper Mississippi River and Its Tributaries.
W77-09529 1019 5G

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

New Opportunities for State Participation in the Control of Radioactive Pollution,
W77-09539 1019 5G

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

Tanners' Council of America V Train (Review of Effluent Limitations for Tanning Industry).
W77-09578 1019 6E

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

The Push to Ease Water Rules.
W77-10446 1021 6E

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

Ward V Coleman (Constitutionality, and the Criminal or Civil Nature of Fines Under the Federal Water Pollution Control Act).
W77-10479 1021 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

Analysis of the Impact of Delaying Compliance with 1977 Water Quality Standards,
W77-11453 1022 5G

State Water Control Board V Train (State Compliance with Effluent Limitation Deadline Mandatory Under the Federal Water Pollution Control Act Amendments).
W77-11456 1022 6E

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

Water Quality Research.
W77-12900 1024 5G

FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (AMENDMENTS OF 1972)

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

FEDERAL WATER POLLUTION CONTROL ACT AMENDMENTS OF 1972 (FWPCA AMENDMENTS OF 1972)

Enforcement of Municipal Permits: Portent of Problems,
W77-08971 1018 6E

FEDERAL WATER POLLUTION CONTROL ACT (FWCA)

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

FEDERAL WATER POLLUTION CONTROL ACT (FWPCA)

Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Toxic Pollutant Effluent Standards for Benzidine.
W77-08359 1017 5G

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

FEDERAL WATER POLLUTION CONTROL ACT (FWPCA) AMENDMENTS OF 1972

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

Control of Agricultural Water Pollution: A Continuing Regulatory Dilema,
W77-07233 1015 5G

NCWQ Recommends Changes in Water Pollution Act,
W77-07237 1015 5G

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

American Petroleum Institute V Environmental Protection Agency (Challenge to EPA Standards for Refineries Under the FWPCA Amendments of 1972).
W77-08394 1017 6E

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

Organic Chemicals Manufacturing Point Source Category, Proposed Effluent Guidelines and Standards.
W77-10472 1021 5G

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

FEDERAL WATER POLLUTION CONTROL ACT OF 1972

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution and Control Act Amendments on Agriculture,
W77-05047 1010 5G

Research and the Quest for Clean Water,
W77-07243 1015 5G

FEED ADDITIVES

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

FEED LOTS

Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

Livestock Waste Management with Pollution Control.
W77-01534 1003 5D

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas Which May Contribute to Drinking Water Supplies. A Preliminary Review,
W77-04128 1009 5B

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

Final Pollution Rules Released,
W77-04609 1010 5G

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Kearney Feeder's Early Effort Earns Environmental Award.
W77-04628 1010 5G

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution and Control Act Amendments on Agriculture,
W77-05047 1010 5G

Control of Agricultural Water Pollution: A Continuing Regulatory Dilema,
W77-07233 1015 5G

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

Livestock and the Environment, A Bibliography with Abstracts--Volume III,
W77-09398 1019 5D

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

Eutrophication Potential of Dairy Cattle Waste Runoff,
W77-09509 1019 5C

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

Animal Wastes Management,
W77-11970 1023 5G

Economic Potential and Management Considerations in Land Application of Beef Feedlot Wastes,
W77-11977 1023 5G

FEED RESPONSE

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

FEEDERS

Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

FEEDING BEHAVIOR

Effect of Prey Distribution and Density on the Searching and Feeding Behavior of Larval Anchovy Engraulis Mordax Girard,
W77-04541 1009 5C

Vital Activity Parameters as Related to the Early Life History of Larval and Post-Larval Lake Whitefish (Coregonus Clupeaformis),
W77-04542 1009 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

FEEDING BEHAVIOUR

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

FEEDING RATE

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

FEEDING RATES

Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Effects of Suspended Solids on Selected Estuarine Plankton,
W77-01784 1004 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Laboratory Studies of Predation by Euphausiid Shrimps on Fish Larvae,
W77-05846 1012 2L

Feeding, Starvation and Weight Changes of Early Fish Larvae,
W77-05849 1012 5C

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Effect of Varying Oxygen Concentrations on the Filtering Rate of Daphnia Pulex,
W77-06473 1013 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

Accomodation of Daphnia pulex to Altered pH Conditions as Measured by Feeding Rate,
W77-09678 1020 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

FEEDING STUDIES

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

FEEDING STUFFS

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

FEEDLOTS
Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection,
W77-01533 1003 5A

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution Control Act Amendments,
W77-04347 1009 5G

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

FEEDS
Treatment of Putrefactive Meat and Fish Waste -- for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

Drying Potato Wastes for Animal Feed as an Alternative Disposal Method.
W77-06947 1014 5D

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

FELLMONGERY WASTES
Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

FEN
Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

FENAC
Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

FENCEROWS
Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

FENITROTHION
Effects of Dietary Fenitrothion on Growth and Hierarchical Position of Brook Trout,
W77-11354 1022 5C

FENSULFOTHION
Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

FENTHION
Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

FENURON
Data to Substantiate the Permissible Concentration of Fenuron in Water Bodies, (In Russian),
W77-04407 1009 5A

FERMENTATION
Chemical-Technological Control of (Effluent) Purification Equipment (Khimiko-tekhnologicheskii kontrol' na ochistnykh sooruzheniyakh),
W77-00327 1001 5D

Irrigation of Corn with Effluents from Fermentation and Yeast-Producing Plants (Oroshenie kukuruzy stochnymi vodami gidrolizno-drozhzhevogo proizvodstva),
W77-01645 1004 5D

Fermentation of Waste Materials to Produce Industrial Intermediates,
W77-03563 1007 5D

Treatment of Troublesome Odors from the Fermentation of Antibiotics (Abbattimento Di Odori Molesti Provenienti Dalla Fermentazione Di Antibiotici),
W77-03603 1008 5D

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Biological Possibilities for Waste Water Purification (Consideratii asupra posibilitatilor biologice de purificare a apelor reziduale),
W77-05685 1012 5G

Increasing the Biological Value of Activated Sludge (Povyshenie biologicheskoi tsennosti aktivnogo ila),
W77-05717 1012 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Fermentation Technology,
W77-09896 1020 5D

Determination of the Degree of Accumulation of Residual Liquor Components During Recycling of the Liquor (Opredelenie stepeni nakopleniya komponentov posledrozhzhevoi brazhki pri vozvrate ee v proizvodstvennyi tsikl),
W77-10697 1021 3E

Contribution of the Pulp and Paper Industry to Agriculture (Tsellyulozno-bumazhnaya promyshlennost' -- sel'skomu khozyaistvu),
W77-10702 1021 5E

Effect of Department Discharges on the Chemical Purification of Industrial Effluent. Part 1. Discharge of a Yeast-Producing Plant -- Spent Fermentation Liquor (O vliyanii tsekhovykh stochnykh vod na protsess khimicheskoi ochistki promstokob. Soobshchenie 1. Stok drozhzhevogo proizvodstva -- posledrozhzhevaya brazhka),
W77-12353 1024 5D

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

FERMENTATION INDUSTRY
Reduction of Deposit Formation in Heat Exchangers (Snizhenie osadkoobrazovaniya v teploobmennoi apparature),
W77-03808 1008 8G

Closed-Cycle Utilization of Fermentation Industry Effluents (Zamknutyi tsikl ispol'zovaniya otkhodov gidroliznogo proizvodstva),
W77-05689 1012 5D

FERMENTATION PLANT
Preparation of Fertilizers from Effluent Sludges of Fermentation Plants (Poluchenie udobrenii iz shlamovykh otkhodov gidroliznogo proizvodstva),
W77-03810 1008 5E

FERNS
Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

FERRIC CHLORIDE
Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Elimination of Enteroviruses During Treatment of Drinking Water by Coagulation - Flocculation - Filtration, (In French),
W77-12944 1024 5F

FERRIC HYDROXIDE
Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

Effect of Ferric Hydroxide Suspension on Blood Chemistry in the Common Shiner, Notropus cornutus,
W77-12237 1023 5C

FERRIC SULFATE
Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

FERROUS CHLORIDE
Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

FERROUS HYDROXIDE
Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

FERROUS IRON
The Rotating Biological Contactor for Biochemical Ferrous Iron Oxidation in the Treatment of Coal Mine Drainage,
W77-05337 1011 5D

FERRUGINOUS SOLONCHAK
Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
W77-00511 1001 2G

FERTI-IRRIGATION

Ferti-Irrigation - Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 1,
W77-01393 1003 3F

Ferti-Irrigation-Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 2,
W77-01394 1003 3F

FERTILITY

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Fertility and Mixed Salinity on Growth and Ca, Mg, Na, P and CI Concentrations of Tomato, Corn, and Sudan Grass Grown in Sand Culture,
W77-06233 1013 3C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

FERTILIZATION

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

Determining the Most Profitable Nitrogen Fertilization for Corn Production,
W77-03172 1007 3F

Deleterious Effects of Corexit 9527 on Fertilization and Development,
W77-04050 1008 5C

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Effect of a Seawater Preparation on Germination Rate, Seed Vigor and Formation of the Mass of Plant Seedlings, (In Russian),
W77-05171 1011 3C

Effects of Uneven Spreading of Fertilizer on Crop Yields,
W77-06091 1012 3F

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Potassium in an Arid Loessial Soil: Changes in Availability as Related to Cropping and Fertilization,
W77-06870 1014 3F

Nitrate in Ground Water and Its Relation to Fertilization, (In German),
W77-07112 1015 5B

Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Forest Fertilization and Water Quality in the North Carolina Piedmont,
W77-08508 1017 5B

Fate of Fertilizer Nitrogen in a Flooded Rice Soil,
W77-09438 1019 2G

Phosphorus Fertilization with Drip Irrigation,
W77-09443 1019 3F

Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

Sulfur-Coated Fertilizers for Sugarcane: I. Plant Response to Sulfur-Coated Urea,
W77-09640 1020 3F

Sulfur-Coated Fertilizers for Sugarcane: II. Release Characteristics of Sulfur-Coated Urea and KCl,
W77-09641 1020 3F

Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

A Technique to Determine Iron Efficiency in Plants,
W77-10280 1021 2G

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

Evaluation of Slow-Release Nitrogen Fertilizers on Pennpar Creeping Bentgrass,
W77-11389 1022 3F

Long-Term Residual Fertility and Current N-P-K Application Effects on Soybeans,
W77-11945 1023 3F

Influence of Nitrogen, Narrow Rows, and Plant Population on Cotton Yield and Growth,
W77-11956 1023 3F

Application of a Two-Variable Mitscherlich Function in the Analysis of Yield-Water-Fertilizer Relationships for Corn,
W77-11961 1023 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

Comparison of Simulated and Measured Nitrogen Accumulation in Burley Tobacco,
W77-12122 1023 3F

Nutrient Uptake by Russet Burbank Potatoes as Influenced by Fertilization,
W77-12128 1023 3F

Nitrogen Accumulation and Translocation in Corn Genotypes Following Silking.
W77-12174 1023 3F

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

Spoon-Feeding Nitrogen.
W77-12520 1024 3F

Budget for Your Nitrogen Ideal Sugarbeets,
W77-12526 1024 3F

Band Application: A Better Less Costly Way to Fertilize Your Crops,
W77-12528 1024 3F

Fertilizer and Chemical Injection,
W77-12535 1024 3F

Drip System Applies Phosphorus.
W77-12536 1024 3F

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

FERTILIZED EGGS

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

FERTILIZER

Study on the Characteristic Distribution of Phosphate in Junhae Bay, (In Korean),
W77-01571 1004 5B

'Hydig'-One Example of Controlled Sludge Use,
W77-07871 1016 5E

FERTILIZER EXCISE TAX

A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

FERTILIZER PLACEMENT
Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

FERTILIZER RIGHTS
A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

FERTILIZERS
Wastewater Sludge as a Fertilizer Substitute,
W77-00046 1001 5E

Wastes Find Fertile Field as Low-Cost Plant Nutrients,
W77-00050 1001 5E

Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Ferti-Irrigation - Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 1,
W77-01393 1003 3F

Ferti-Irrigation-Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 2,
W77-01394 1003 3F

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

Land Spreading of Manure from Animal Production Units,
W77-01544 1003 5E

Effect of Soil Cultivation, Fertilizers and Preceding Crops on the Accumulation, Retention and Consumption of Moisture by Soil and Winter Wheat Plants, (In Russian),
W77-01736 1004 3F

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

Crop Response to Tank Truck Application of Liquid Sludge,
W77-02390 1005 5C

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Physical and Chemical Properties of Takyr Soils and Changes in Their Agrochemical Properties After Irrigation, (In Russian),
W77-02929 1006 3F

Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Effect of Method of Nitrogen Application on Corn (Zea Mays L.) Grown on Irrigated Sandy Soil,
W77-03071 1006 3F

Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas which May Contribute to Drinking Water Problems,
W77-03567 1007 5B

Treatment of Putrefactive Meat and Fish Waste -- for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
W77-03633 1008 3C

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, III. Oilseed Crops,
W77-03634 1008 3F

Preparation of Fertilizers from Effluent Sludges of Fermentation Plants (Poluchenie udobrenii iz shlamovykh otkhodov gidroliznogo proizvodstva),
W77-03810 1008 5E

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Methane From Farm Wastes,
W77-04630 1010 5B

The Contribution of Fertilizer to the Ground Water of Long Island,
W77-04758 1010 5B

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

Effects of Uneven Spreading of Fertilizer on Crop Yields,
W77-06091 1012 3F

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Final Report on Fertilizer Movement Through Soil Resulting from Rainfall,
W77-06096 1012 5B

Effects of Municipal Compost and Nitrogen Fertilizer on Selected Soils and Plants,
W77-06146 1013 5C

Yield and Nitrogen Utilization by Wheat in Relation to Moisture and Fertility Levels,
W77-06241 1013 3F

Potassium in an Arid Loessial Soil: Changes in Availability as Related to Cropping and Fertilization,
W77-06870 1014 3F

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Agricultural Disposal of Aerobic Wastewater Sludges in an Urban County,
W77-07057 1014 5D

The Effect of the Use of Pesticides and Fertilizers in the Water Protection Zone with Sources of Artificial Replenishment of Underground Water Reserves, (In Russian),
W77-07107 1015 5B

Relation Between the Amounts of Fertilizer and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: II. On the Relation Between Livestock Waste Per Unit Area of Basin and the Specific Load of Pollutants in Main Streams Flowing into Nishiura Lake Basin, (In Japanese),
W77-07569 1015 5B

Composting--An Approach to Using Sewage Waste,
W77-07876 1016 5E

Making Aquatic Weeds Useful: Some Perspectives for Developing Countries.
W77-07964 1016 4A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
W77-08984 1018 5G

Soil Nitrates Following Four Years Continuous Corn and as Surveyed in Irrigated Farm Fields of Central and Eastern Colorado,
W77-09429 1019 5B

Phosphorus Fertilization with Drip Irrigation,
W77-09443 1019 3F

Sulfur-Coated Fertilizers for Sugarcane: I. Plant Response to Sulfur-Coated Urea,
W77-09640 1020 3F

Sulfur-Coated Fertilizers for Sugarcane: II. Release Characteristics of Sulfur-Coated Urea and KCl,
W77-09641 1020 3F

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

Pasteur v Curie.
W77-09864 1020 5D

Elemental Composition of Sludge-Fertilized Chrysanthemums,
W77-09868 1020 5E

A New Rapid Digestion Process for Sewage Sludge Utilization (Einneues Schnellrotte-Verfahren als Beitrag zur weitergehenden Klaerschlamm-Verwertung),
W77-09887 1020 5D

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

Options for Sludge--To Land, Sea or Fire,
W77-09918 1020 5E

Distribution of Nitrate in Ground Water, Redlands, California,
W77-10558 1021 5B

Maryland Research Finding Guidelines for Sludge Use.
W77-10580 1021 5E

Albuquerque Closes Water-Wastewater Cycle.
W77-10633 1021 5D

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

Evaluation of Slow-Release Nitrogen Fertilizers on Pennpar Creeping Bentgrass,
W77-11389 1022 3F

Composition of Mineral Phosphates and Conversion of Phosphorus Fertilizers in Floodplain Soils, (In Russian),
W77-11405 1022 2G

Sludge Handling.
W77-11710 1023 5E

Hygienization of Sewage Sludge by Electron Irradiation,
W77-11712 1023 5E

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Hog Manure Worth $3.50 Per Ton as Fertilizer.
W77-11969 1023 5B

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Sprinkler Application of P and ZN Fertilizers,
W77-12123 1023 3F

Sugarbeet Yield and Quality as Affected by Nitrogen Level,
W77-12125 1023 3F

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

Effect of Dried Anaerobically Digested Sewage Sludge on Yield and Element Accumulation in Tall Fescue and Alfalfa,
W77-12444 1024 5E

Fertilizer and Chemical Injection,
W77-12535 1024 3F

Nitrate-N Percolation Through Irrigated Sandy Soil as Affected by Water Management,
W77-12830 1024 5B

The Productivity, Fodder Value and Utilization of Nutrients by Alfalfa in Irrigation and Application of Macroelements and Molybdenum, (In Russian),
W77-12994 1024 3F

Determination of Optimal Soil Moisture Conditions for Grass Stands in the Dry Valleys of the Moscow Oblast (USSR), (In Russian),
W77-12995 1024 2G

FESCUES
Effect of Dried Anaerobically Digested Sewage Sludge on Yield and Element Accumulation in Tall Fescue and Alfalfa,
W77-12444 1024 5E

FETCH
Estimating Wave Generation on Restricted Fetches,
W77-09021 1018 2L

FIBER CONTENT
Methods for Analyzing the Hydrological Characteristics of Organic Soils in Marsh-Ridden Areas,
W77-06439 1013 2G

FIBER CROPS
Response of Cotton to Nitrogen and Water in a Tropical Environment. III. Fibre Quality,
W77-01910 1004 3F

Water Management in Linseed,
W77-04788 1010 3F

FIBER MATTING (EROSION CONTROL)
Matting for the Prevention of Hydraulic Erosion,
W77-09798 1020 4D

FIBERGLASS REINFORCED PLASTIC
Plastic Sewer Pipe Materials.
W77-07931 1016 8G

FIBERGLASS WELL CASING
New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

FIBERS (ASBESTOS)
Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

FIBERS (PLANT)
Response of Cotton to Nitrogen and Water in a Tropical Environment. III. Fibre Quality,
W77-01910 1004 3F

Biodegradation of Cellulosic Substrates,
W77-09522 1019 5B

Separation of Fibers from Paper Mill Effluent with Continuously Backwashed, Pressurized, Liquid Filter,
W77-10713 1021 5D

FIBONACCI SEARCH
Two-Dimensional Searches for High-Yield Well Sites,
W77-10967 1022 8B

FIDDLER CRAB
Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

FIDDLER CRABS
Temperature Variation in Fiddler Crab Microhabitats,
W77-01058 1003 5C

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

FIELD CAPACITY
A Method of Evaluating a Field Water Capacity Using PF-3, (In French),
W77-06844 1014 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

FIELD CHANNELS (IRRIGATION)
Field Channels: A Key to Better Indian Irrigation,
W77-03062 1006 3F

FIELD GEOMETRY EFFECTS
Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

FIELDS BROOK (OHIO)
Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

FIELDS LAKE (TEXAS)
Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

FILAMENTOUS MARINE FUNGI
Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

FILL AND DREDGE PERMITS
Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

FILL PERMITS
New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Shoreland Boundaries.
W77-01004 1002 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

United States V Diamond (Permanent Injunction During Administrative Procedures Justified

by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

State V Wilson (Seasonally Flowing Stream Not Constantly Flowing Stream).
W77-10486 1021 6E

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

FILMS

Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

FILRATION

Treating Effluent Containing Compounds Pref. Dyes - By Adding Salt Generator of Opposite Charge to Effluent Ion then Ultra-Filtering.
W77-02612 1006 5D

FILTER BACKWASHING

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

FILTER BED COATINGS

Polyelectrolytes Filter Bed Coatings (Impregnacja zloz filtracyjnych polielektrolitami),
W77-06192 1013 5D

FILTER CAKES

How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

FILTERABLE RESIDUE

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

FILTERING RATE

Effect of Varying Oxygen Concentrations on the Filtering Rate of Daphnia Pulex,
W77-06473 1013 5C

FILTERS

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

Effect of Some Pesticides on the Ability of the Filteration of Eel Culture Using Recirculating Filter System, (In Korean),
W77-01497 1003 5C

Filter, Especially for Back Water,
W77-01720 1004 5D

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

Combined Filter and Dryer for Sewage Sludge Etc. - Uses Band of Vacuum Filter to Carry Cake Through Filter Press.
W77-02341 1005 5D

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

Direct Physicochemical Treatment with Ozone,
W77-02747 1006 5D

The Rotating Biological Filter,
W77-03282 1007 5D

High Gradient Magnetic Filtration,
W77-03418 1007 5D

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

Use of New Type of Membrane Filters in Isolating Salmonella from Water of Surface Reservoirs, (In Russian),
W77-04082 1008 5A

An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

Tertiary Filter for Waste Treatment,
W77-04677 1010 5D

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Membrane Filter Method for Recovery of Fecal Coliforms in Chlorinated Sewage Effluents,
W77-04713 1010 5D

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Sand Bed Filter with Automatic Sludge Discharge-as Sludge Sump Pressure Rises, Uses Compressed Air to Comb Bed,
W77-05514 1011 5D

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Effects of Dosing Rates on Trickling Filter Performance,
W77-06167 1013 5D

Backwashing of Granular Filters,
W77-07037 1014 5D

Anaerobic Filter Treats Waste Activated Sludge,
W77-07078 1014 5D

Two New Methods of Sludge Removal,
W77-07224 1015 5D

Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

Sludge Dewatering by Belt Filter.
W77-07905 1016 5D

Two-Stage Filtration of Secondary Effluent,
W77-07907 1016 5D

Multi-Stage Filter Press.
W77-07914 1016 5D

Trials on the Operation of Biological Filters,
W77-07954 1016 5D

Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

Waste Water Treatment by Upflow Sand Filtration,
W77-08087 1016 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

Travelling Grate-Type Filtration System Uses Pulverized Coal to Lower BOD of Wastewater.
W77-08577 1017 5D

Filters and Sludge Drying Beds,
W77-08586 1017 5D

Horsham's Sewage Works,
W77-08595 1017 5D

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Continuous Filter Press.
W77-09826 1020 5D

Pilot-Scale Investigations into the Use of Random-Pack Plastics Filter Media in the Complete Treatment of Sewage,
W77-09830 1020 5D

Waste Water Treatment by Anaerobic Contact Filter,
W77-09862 1020 5D

New Wastewater Treatment Systems.
W77-09886 1020 5D

Note on the Trace Metal Content of Membrane Filters,
W77-10383 1021 5F

Anglian Opens Its Largest Sewage Treatment Works.
W77-10621 1021 5D

Apparatus for Treating a Liquid Using a Percolating Layer (Appareil de traitment de liquide a couche de percolation).
W77-10696 1021 5D

Separation of Fibers from Paper Mill Effluent with Continuously Backwashed, Pressurized, Liquid Filter,
W77-10713 1021 5D

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

The Pressure Drum Filter for Sludge Dewatering.
W77-11698 1023 5D

Treatment of Organic Waste Water by Tower Type Packed Biofilter (Jutento shiki rosho ho ni okeru kaibunshiki shori no joka sokudo),
W77-11715 1023 5D

High Rate Filter at Rugby.
W77-11723 1023 5D

A Fundamental Study of Removal Mechanisms of Suspended Particles in the Deep Filter (III) (Kyusoku rokaroso no kyodo (III): Teijo rokaji no rihaku to sono sayo kiko no kento),
W77-11829 1023 5D

Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

Investigation of Combined Washing of the Sand Filter in the Purification of Kraft Mill Effluents (Issledovanie kombinirovannoi promyvki peschanogo fil'tra pri ochistke stokov sul'fat-tsellyuloznogo proizvodstva),
W77-12340 1024 5D

Control Functions at Coppermills Works.
W77-12433 1024 5D

The Hydraulic Resistance of Subsurface Drains as Influenced by Certain Filter Materials,
W77-12835 1024 4A

The Use of Calibrated Paper Filters for Measuring to Total Soil Moisture Potential, (In Russian),
W77-12998 1024 2G

FILTRATION

Cross-Flow Filtration in Physical-Chemical Treatment of Municipal Sewage Effluents,
W77-00042 1001 5D

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

Polymers Play Increased Role in Water Clarification,
W77-00082 1001 5D

Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 1002 5D

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

Natural Filtering of Suspended Soil by a Stream at Low Flow,
W77-01428 1003 4C

Investigation of the Problem of Determining Total Suspended Solids in Pulp and Paper Effluents,
W77-01652 1004 5A

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

Filter, Especially for Back Water,
W77-01720 1004 5D

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Application of Ultra Filtration/Reverse Osmosis Technique for the Fractionation of Cheese Whey - A Waste Disposal of the Dairy Industry,
W77-02598 1006 5D

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Direct Physicochemical Treatment with Ozone,
W77-02747 1006 5D

Effluent Polishing by Filtration through Activated Alumina, Volume II, (March, 1975).
W77-02755 1006 5D

High Gradient Magnetic Filtration,
W77-03418 1007 5D

'Give Flotation a Try' was Challenged.
W77-03439 1007 5F

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues,
W77-04678 1010 5D

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

Gravity Filtering Equipment,
W77-04967 1010 5F

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

An Experimental and Simulation Study of Waste Effluent Filtration Through Soil,
W77-05321 1011 5B

Sand Bed Filter with Automatic Sludge Discharge-as Sludge Sump Pressure Rises, Uses Compressed Air to Comb Bed,
W77-05514 1011 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

Process of Treating Gelatinous Sludge Agglomerations,
W77-06111 1013 5D

Wastewater Treatment Unit Features Fluidized Bed.
W77-06117 1013 5D

Filtration Research in UK Universities,
W77-06120 1013 5D

Filtration with Granular Beds,
W77-06123 1013 5D

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Effects of Dosing Rates on Trickling Filter Performance,
W77-06167 1013 5D

Polyelectrolytes Filter Bed Coatings (Impregnacja zloz filtracyjnych polielektrolitami),
W77-06192 1013 5D

Removal of Cr(+6) from Potable Water by Ion Exchange (Usuwanie zwiazkow Cr(+6) z wody pitnej za pomoca wymiany jonowej),
W77-06193 1013 5F

Asbestos in Water: Mining and Processing Effluent Treatment,
W77-06218 1013 5D

The Treatment of Waste Emulsified Oils by Ultrafiltration,
W77-06221 1013 5D

Backwashing of Granular Filters,
W77-07037 1014 5D

Characterization of Soluble Organic Matter in Leachate,
W77-07039 1014 5A

Adsorption, Coagulation and Filtration Make a Useful Treatment Combination-Part 2,
W77-07077 1014 5D

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. III. Filtration by Flocculation for the Elimination of Phosphorus from Communal Waste Water (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutzanforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. III. Flockungsfiltration zur Elimination von Phosphor aus Kommunalem Abwasser),
W77-07082 1014 5D

Ultrafiltration Oil Reclamation Process,
W77-07212 1015 5D

Inline Sensor Tightens Control on Sludge Consistency to Within 1.4-1.5% Solids,
W77-07214 1015 5D

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Two New Methods of Sludge Removal,
W77-07224 1015 5D

Concentration of Bacteria in Water Using the Ultrafiltration Method, (In French),
W77-07860 1016 5D

Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Trials on the Operation of Biological Filters,
W77-07954 1016 5D

Method of Filtering Liquids Containing Dissolved Carbon Dioxide,
W77-08013 1016 5D

Mechanisms and Kinetic Parameters in Granular Media Filtration,
W77-08097 1016 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Role of Polyelectrolytes in the Filtration of Colloidal Particles from Water and Wastewater,
W77-08339 1017 5D

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Dewatering: A New Method Bows,
W77-08528 1017 5D

Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

Screening Apparatus for Removal of Solids--from Sewage with Rotating Screen and Vertical Lift for Residues.
W77-08562 1017 5D

Travelling Grate-Type Filtration System Uses Pulverized Coal to Lower BOD of Wastewater.
W77-08577 1017 5D

Horsham's Sewage Works,
W77-08595 1017 5D

Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Liquid Filtering Apparatus,
W77-09820 1020 5D

Pilot-Scale Investigations into the Use of Random-Pack Plastics Filter Media in the Complete Treatment of Sewage,
W77-09830 1020 5D

Rapid Sand Filtration for Best Practical Treatment of Domestic Waste Water Stabilization Pond Effluent,
W77-09853 1020 5D

Waste Water Treatment by Anaerobic Contact Filter,
W77-09862 1020 5D

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

Character and Dewatering Properties of Sludges from Water Treatment,
W77-09881 1020 5D

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

Ultrafiltration--The Current State of the Art,
W77-10338 1021 5D

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Some Aspects of High Gradient Magnetic Separation,
W77-10349 1021 5D

Note on the Trace Metal Content of Membrane Filters,
W77-10383 1021 5F

Direct Filtration,
W77-10651 1021 5D

Water Filter Device,
W77-10993 1022 5F

Traditional Methods of Water Purification in the Riverain Sudan in Relation to Geographic and Socioeconomic Conditions,
W77-11620 1023 5D

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

Two Contracts Underway to Complete South Bay Area Water Treatment Plant.
W77-11705 1023 5D

New Development.
W77-11718 1023 5D

High Rate Filter at Rugby.
W77-11723 1023 5D

Water Quality Management--Research and Development Areas,
W77-11747 1023 5G

Salvaging an Old Sewage Plant Cuts Tertiary Treatment Costs.
W77-11751 1023 5D

A Fundamental Study of Removal Mechanisms of Suspended Particles in the Deep Filter (III) (Kyusoku rokaroso no kyodo (III): Teijo rokaji no rihaku to sono sayo kiko no kento),
W77-11829 1023 5D

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon: No. II,
W77-11830 1023 5D

Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

Investigation of Combined Washing of the Sand Filter in the Purification of Kraft Mill Effluents (Issledovanie kombinirovannoi promyv-

ki peschanogo fil'tra pri ochistke stokov sul'fat-tsellyuloznogo proizvodstva),
W77-12340 1024 5D

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

Purification of Natural Water in Clarifiers with Suspended Filter (Ochistka prirodnoi vody v osvetlitelyakh so vzveshennym fil'trom),
W77-12358 1024 5F

A Model to Predict Concentration and Head-Loss Profiles in Filtration,
W77-12406 1024 5D

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

Effect of Residence Time on Fixed Film Reactor Performance,
W77-12427 1024 5D

Bay-Area Industries to Re-Use Treated Wastewater.
W77-12437 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

Water Filter,
W77-12689 1024 5F

Water Purifier,
W77-12690 1024 5F

Apparatus for Removing Solid Material from Sewage or Other Liquid,
W77-12947 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

FIN EROSION
Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

FIN EROSION DISEASE
Fin Erosion Disease of Starry Flounder (Platichthys Stellatus) and English Sole (Parophrys Vetulus) in the Estuary of the Duwamish River, Seattle, Washington,
W77-04038 1008 5C

FIN ROT
The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

FIN ROT DISEASE (FISH)
Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

FINAL SETTLING TANKS
Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

FINAL TREATMENT
Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

FINANCE
Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

FINANCIAL FEASIBILITY
Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

FINANCING
Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, State and Local Revenue Expenditures.
W77-04305 1009 5G

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

Genesee County Parks and Recreation Study,
W77-05214 1011 6B

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

House Committee Marks up HR 9560,
W77-07236 1015 5G

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Financing: There Must be a Better Way,
W77-07873 1016 5G

Changes Urged at NCWQ Hearings,
W77-08967 1018 6E

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

FINE AGGREGATES
Fine Screening of Raw Sewage,
W77-08629 1018 8G

FINE SCREENING (STRAINERS)
Fine Screening of Raw Sewage,
W77-08629 1018 8G

FINFISH
The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

FINGER LAKES BASINS (NY)
Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

FINGERLING PASSAGE
Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

FINGERLINGS
Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

FINGERNAIL CLAM
Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

FINITE DAMS
Emptiness of a Finite Dam--Time Dependent Theory,
W77-07683 1016 8B

FINITE DIFFERENCE
Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

FINITE DIFFERENCE ANALYSIS
Prediction of Mound Geometry Under Recharge Basins,
W77-02144 1005 2F

FINITE-DIFFERENCE EQUATIONS
Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

FINITE DIFFERENCE METHOD
Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

FINITE-DIFFERENCE MODEL
Pump Testing in Heterogeneous Aquifers,
W77-10764 1021 2F

FINITE-DIFFERENCE TECHNIQUES
Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

FINITE DIFFERENCE THEORY
Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

FINITE DIFFERENCES
Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

FINITE ELEMENT ANALYSIS
Parameter Identification in an Inhomogeneous Medium with the Finite-Element Method,
W77-00638 1002 2F

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

Supplement to Documentation of Finite-Difference Model for Simulation of Three-Dimensional Ground-Water Flow,
W77-03329 1007 2F

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

Transient Finite Element Shallow Lake Circulation,
W77-05806 1012 2H

Analysis of Flows with Initially Unknown Discharge,
W77-05968 1012 8B

Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

Solution of Equation for Two-Dimensional Infiltration Problems,
W77-07142 1015 2G

Finite-Element Analysis of Groundwater Flow in Multiaquifer Systems, I. The Behavior of Hydrological Properties in an Aquitard While Being Pumped,
W77-07148 1015 2F

On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

Methodology for Applying the Finite Element Method to Partially Stratified Estuaries,
W77-08198 1017 2L

A Finite Element Model to Determine the Effect of Land-Use Changes on Flood Hydrographs,
W77-08450 1017 8B

Finite Element Solution of the Two-Dimensional Unsaturated Flow Equation,
W77-08923 1018 2G

Numerical Solution for Flow Under Sluice Gates,
W77-09012 1018 8B

Finite-Element Analysis of Groundwater Flow in Multi-Aquifer Systems, II. A Quasi Three-Dimensional Flow Model,
W77-09362 1019 2F

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

Groundwater Chemistry and the Transport Equations,
W77-12112 1023 2F

A Finite Element Distributed Catchment Model, I. Analytical Basis,
W77-12798 1024 2A

FINITE-STATE MODELS

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

FINLAND

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Possible uses for Fibrous Sludges from the Pulp and Paper Industry,
W77-03817 1008 5E

Meromictic Mechanisms in a Coastal Lake, (In Finnish),
W77-04071 1008 5C

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

FINLAND (KIIMINKIJOKI RIVER)

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

FIR TREES

Moisture and Temperature of Soil in Different Sites of a Fir Stand, (In Italian),
W77-06466 1013 2G

FIRE HAZARD REDUCTION

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

FIREHOLE RIVER

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

FIRM MODEL

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-03931 1008 5G

FIRST NARROWS (STRAIT OF MAGELLAN)

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

FIRST ORDER KINETICS

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

FIRST PASSAGE TIMES

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

FIRTH OF CLYDE

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

FISH

Presence of Spring and Winter Races of the Nelma in the OB River, (In Russian),
W77-00057 1001 2I

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Protection of Aquatic Wildlife.
W77-00992 1002 6E

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

Seasonal Shifts in the Spawning Site of a Northeast Pacific Intertidal Fish,
W77-01063 1002 2L

Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

Growth of the Yellowcheek Elopichthys Bambusa (Rich.) in the Amur Basin, (In Russian),
W77-01229 1003 2I

Zinc Speciation and Toxicity to Fishes,
W77-01298 1003 5C

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

Environmental Poisons.
W77-01547 1003 5C

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

Swimming of Slender Fish in a Non-Uniform Velocity Field,
W77-02155 1005 2L

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

On the Living Environment for Fish in the Coastal Waters Surrounding the New and Old Volcanic Island 'Nisi-No-Sima', (In Japanese),
W77-02917 1006 5C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

Poisoning of, and Obstruction to, Fish.
W77-03500 1007 6E

Askew V Game and Fresh Water Fish Commission (Pollution Abatement Efforts Held Constitutional).
W77-04379 1009 6E

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

Fish Toxicity with Specific Reference to the Pulp and Paper Industry,
W77-05712 1012 5C

Canned and Preserved Seafood Processing Point Source Category, Effluent Guidelines and Standards.
W77-06057 1012 5G

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

Expansion of the Range of Some Fish Species in Connection with Hydraulic Engineering Construction on the Volga and Acclimatization Works, (In Russian),
W77-08715 1018 8I

Photochemical Dechlorination of Water Supply for Fish Tanks with Commercial Water Sterilizers,
W77-08842 1018 5F

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

Aquatic Baseline Survey of Selected Test Areas on Eglin Air Force Base Reservation, Florida,
W77-09499 1019 7C

Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

The Consequences of Impoundment on an Arctic Char Lake System. An Analysis by Simulation Modelling,
W77-09616 1020 5B

Biological Effects and Persistence of Methyl Parathion in Clear Lake, California,
W77-10063 1020 5C

Unintentional Introductions of Fishes Via Hydroelectric Power Stations and Centrifugal Pumps,
W77-10225 1021 8I

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

FISH AND WILDLIFE SERVICE

Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

FISH BARRIERS

Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

FISH BEAVIOR

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

FISH BEHAVIOR

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Changes in Behaviour During Starvation of Herring and Plaice Larvae,
W77-04540 1009 5C

Vital Activity Parameters as Related to the Early Life History of Larval and Post-Larval Lake Whitefish (Coregonus Clupeaformis),
W77-04542 1009 5C

Behavior of Fish Influenced by Hotwater Effluents as Observed by Ultrasonic Tracking,
W77-04568 1009 5C

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Influence of Dissolved Atmospheric Gas on Swimming Performance of Juvenile Chinook Salmon,
W77-05084 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Some Relationships of Upper Thermal Tolerances to Preference and Avoidance Responses of the Bluegill,
W77-05563 1011 5C

Behavioral Thermal Regulation by Rainbow Trout in a Temperature Gradient,
W77-05568 1011 5C

Behavioral Thermoregulation by Bluegill Exposed to Various Rates of Temperature Change,
W77-05569 1011 5C

Daily Ration, Temperature Selection, and Activity of Bluegill,
W77-05570 1011 5C

Thermal Preferenda and Behavioral Thermoregulation in Three Centrarchid Fishes,
W77-05571 1011 5C

Temperature Preference and Movement of Fish in Relation to a Long, Heated Discharge Channel,
W77-05572 1011 5C

Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Compilation of Temperature Preference Data,
W77-08767 1018 7C

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

Effects of Dissolved Oxygen on Survival and Behavior of Selected Fishes of Western Lake Erie,
W77-11514 1023 5C

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

The Effect of Exposure to a Subacute Concentration of Parathion on the General Locomotor Behavior of the Goldfish,
W77-12648 1024 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

FISH BIOLOGY

Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

FISH BLOOD

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

FISH BLOOD CELLS

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

FISH CAGES

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

FISH CONSERVATION

Protection of Aquatic Wildlife.
W77-00992 1002 6E

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

FISH CONTROL AGENTS

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

FISH CULTURE

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

FISH DIETS

Diet of Hippoglossina Macrops (Steindachner) in Mejillones (Pisces, Bothidae), (IN Spanish),
W77-00502 1001 2L

Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

Food Selection in Tilapia Galilaea (Pices, Cichlidae) of Lake Tchad, (In French),
W77-04687 1010 2H

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Experience in Using Parasites for a Quantitative Evaluation of Fish Feeding, (In Russian),
W77-09400 1019 2I

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

FISH DISEASE

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

FISH DISEASES

The Invasion of Rate of Fish Yearlings with Plerocercoids of the Broad Fish Tapeworm in the Kama Water Reservoir, (In Russian),
W77-00541 1002 2I

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

Effect of Some Pesticides on the Ability of the Filteration of Eel Culture Using Recirculating Filter System, (In Korean),
W77-01497 1003 5C

Development of the Chlorococcal Alga Coelastrum Microporum Naeg. in Fish-Breeding Ponds, (In Russian),
W77-02248 1005 5C

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Fin Erosion Disease of Starry Flounder (Platichthys Stellatus) and English Sole (Parophrys Vetulus) in the Estuary of the Duwamish River, Seattle, Washington,
W77-04038 1008 5C

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

Structural Modifications,
W77-05087 1010 8A

Review of Gas Supersaturation Research Done by National Marine Fisheries Service at Prescott Field Facility -- 1969-1974,
W77-05091 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

Gas Bubble Disease,
W77-06018 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

Studies of the Causes of Fish Mortality in Lake Balaton in 1975, (In Hungarian),
W77-12981 1024 5B

FISH EGGS

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

Effects of Slag on Aquatic Life,
W77-00625 1002 5C

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Tolerance of Salmonid Eggs, Juveniles and Squawfish to Supersaturated Nitrogen,
W77-04443 1009 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

Vertical and Seasonal Variability of Fish Eggs and Larvae at Ocean Weather Station 'India',
W77-05840 1012 2L

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

FISH EGGS

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

FISH EMBRYOS

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

FISH ESTABLISHMENT

Leases of Lakes, Ponds, Streams and Reservoirs.
W77-01116 1003 6E

FISH EYE

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

FISH FARMING

Sea Farming: A Means for Contributing to Feeding Mankind, (In Spanish),
W77-01421 1003 6E

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Northwest Mariculture Laws,
W77-03598 1007 6E

Criteria for Candidate Species for Aquaculture,
W77-04171 1009 6C

The Early Life History of Fish, Volume II.
W77-04524 1009 2I

Mass Rearing of the Bass Dicentrarchus Labrax L.,
W77-04525 1009 2I

Nutrition de la Larve de Turbot (Scophthalmus Maximus L.) Avant la Metamorphose,
W77-04526 1009 5C

Progress Towards the Development of a Successful Rearing Technique for Larvae of the Turbot, Scophthalmus Maximus L.,
W77-04527 1009 2I

Laboratory Rearing of Common Sole (Solea Solea L.) Under Controlled Conditions at High Density with Low Mortality,
W77-04528 1009 5C

Algae in Copper Treated Fish Ponds,
W77-05860 1012 5C

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

Agricultural Wastes in Fish Farming. A Commercial Application of the Culture of Single-Celled Organisms for Protein Production,
W77-10050 1020 5E

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

FISH FARMING PRODUCTIVITY

Algal Productivity of Natural and Artificially Enriched Fresh Waters in Malaya,
W77-07471 1015 5C

FISH FITNESS

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

FISH FOOD ORGANISMS

Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Change of Biocenoses in Artificial Bodies of Water Due to Human Intervention, (In Russian),
W77-03618 1008 5C

Food Selection in Tilapia Galilaea (Pices, Cichlidae) of Lake Tchad, (In French),
W77-04687 1010 2H

The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

Food and Feeding of Larval Redfish in the Gulf of Maine,
W77-05844 1012 2L

Food of the Larval Anchoveta Engraulis Ringens J.,
W77-05845 1012 2L

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

The Optimal Zooplankton Biomass in Fish-Rearing Ponds, (In Russian),
W77-06406 1013 2I

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

Agricultural Wastes in Fish Farming. A Commercial Application of the Culture of Single-Celled Organisms for Protein Production,
W77-10050 1020 5E

Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

Effects of Dietary Fenitrothion on Growth and Hierarchical Position of Brook Trout,
W77-11354 1022 5C

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

FISH FOODS

The Biology of Daphnia Magna Straus and the Production of Its Population in Lake Bugaevo (Krasnoyarsk Krai), (In Russian),
W77-12616 1024 2H

FISH FRY

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

FISH GENETICS

Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

Allelic Selection in a Fish (Gymnocephalus Cernua (L.)) Subjected to Hotwater Effluents,
W77-04572 1009 5C

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

FISH GROWTH

Aspects of the Growth and Reproduction of Labeo Capensis in the Caledon River,
W77-10194 1021 2E

FISH HABITATS

On the Living Environment for Fish in the Coastal Waters Surrounding the New and Old Volcanic Island 'Nisi-No-Sima', (In Japanese),
W77-02917 1006 5C

FISH HANDLING FACILITIES

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

Canned and Preserved Seafood Processing Point Source Category, Effluent Guidelines and Standards.
W77-06057 1012 5G

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

FISH HARVEST

Forecasts of Atlantic and Gulf Menhaden Catches Based on the Historical Relation of Catch and Fishing Effort,
W77-00388 1001 6C

Optimal Exploitation of Multiple Stocks by a Common Fishery: A New Methodology,
W77-00920 1002 6A

Dynamics, Stock and Forecast of Fish Catches in Lakes of the Kura-Araks Lowland, (In Azerbaijani),
W77-01609 1004 5C

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

FISH HATCHERIES

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

Gas Bubble Disease,
W77-06018 1012 5C

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

The Optimal Zooplankton Biomass in Fish-Rearing Ponds, (In Russian),
W77-06406 1013 2I

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Reproduction Rate and Productivity of Bacteria in the Ponds of the Karamet-Niyaz Fishery Farm, (In Russian),
W77-08462 1017 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

FISH HATCHERY

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

FISH HYDRODYNAMICS

Swimming of Slender Fish in a Non-Uniform Velocity Field,
W77-02155 1005 2L

FISH KILL

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

FISH KILLS

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

FISH LADDERS

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

FISH LAKE (TEXAS)

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

FISH LARVAE

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

FISH LIVER

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

FISH LIVERS

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

FISH MANAGEMENT
Fisheries Management and Social Context: The Case of the Maine Lobster Fishery,
W77-00383 1001 6B

Status of the Gulf and Atlantic Manhaden Fisheries and Implications for Resource Management,
W77-00389 1001 6C

Decision-Making in Recreational Fisheries Management: an Analysis,
W77-00391 1001 6B

Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Criteria for Candidate Species for Aquaculture,
W77-04171 1009 6C

Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

A Food Web Model for Lake Michigan: Part I-Justification and Development of the Model,
W77-09631 1020 5C

Productivity of Clarias Batrachus in the Sewage Fertilized Fish Ponds,
W77-09922 1020 5C

The Shore and the Water-The Localization of Damage and the Regulation of Fish Management in Controlled Lakes, (In Swedish),
W77-09935 1020 4A

The Darwendale Reservoir as a Fishery,
W77-10096 1020 2H

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

New York's Marine Fisheries: Changing Needs in a Changing Environment,
W77-12247 1023 6B

FISH MIGRATION
The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Movements of Tagged Juvenile Menhaden (Brevoortia Patronus) in the Gulf of Mexico,
W77-02066 1004 8I

Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Allelic Selection in a Fish (Gymnocephalus Cernua (L.)) Subjected to Hotwater Effluents,
W77-04572 1009 5C

Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Report to Corps of Engineers Gas Supersaturation Research, Prescott Facility, 1974,
W77-05785 1012 5C

Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

Comments on 'Fish Communities in Tropical Fresh Waters' by R. H. Lowe-McConnell,
W77-10382 1021 2H

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

FISH MIGRATIONS
Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

FISH MORPHOLOGY
Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

FISH MORTALITY
The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gas-

blasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

FISH NETS
Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

FISH ORGANISMS
Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

FISH PARASITES
The Invasion of Rate of Fish Yearlings with Plerocercoids of the Broad Fish Tapeworm in the Kama Water Reservoir, (In Russian),
W77-00541 1002 2I

Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

Factors Determining Aspects of Fish Parasitofauna Formation in the Kakhovka Reservoir, (In Russian),
W77-02246 1005 5C

Abundance and Population Dynamics of Parasites Infecting Atlantic Salmon (Salmo Salar) in Trout Brook, New Brunswick, Canada,
W77-03053 1006 5C

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

Argulus in the Lake of Geneva, (In French),
W77-04655 1010 2H

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

The Effect of Hydrotechnical Construction on the Parasites of the Deniper River, (In Russian),
W77-06323 1013 5C

Comparative Characteristics of the Parasite Fauna of Bream in Lakes Dusios, Obelijos, Salvantu and Galstas, Which Have Different Thermal Regimes, (In Russian),
W77-07312 1015 2H

The Larval Spirurid Nematodes of Fresh-Water Crustaceans: I. The Identification and the Examination of Their Pathogenicity,
W77-07458 1015 5C

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

Population Dynamics and Species Diversity of Ichthyo-Parasitofauna of the Buffalo National River,
W77-08446 1017 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

Effect of Parasites on the Condition and Growth of Young Fish of the Kremenchug Reservoir, (In Russian),
W77-09278 1019 2I

•Experience in Using Parasites for a Quantitative Evaluation of Fish Feeding, (In Russian),
W77-09400 1019 2I

Helminth Fauna of Beloniform Fish, (In Russian),
W77-09403 1019 2I

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Urceolarids (Ciliata, Peritricha) from Fishes of the Urals, (In Russian),
W77-09936 1020 2H

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

FISH PASSAGE
Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

FISH PASSAGES
Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids,
W77-05416 1011 5C

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

FISH PATHOLOGY

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

FISH PHYSIOLOGICAL RESPONSE

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

FISH PHYSIOLOGY

Ecological and Physiological Patterns of Polyartemia Forcipata (Anostraca) from Tundra Water Bodies of the East Murman, (In Russian),
W77-00525 1001 2I

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Water Quality Standards,
W77-04436 1009 5C

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-06275 1013 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

Alteration in the Toxicity of Tissue Lipids with the Adaptation of Fishes to Osmotic Pressure Changes in the Environment,
W77-07120 1015 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

The Influence of Underwater Explosion on Fish, (In Japanese),
W77-07316 1015 8H

Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Compilation of Temperature Preference Data,
W77-08767 1018 7C

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Effects of Oral Administration of Cadmium on Fish - I. Analytical Results of the Blood and Bones, (In Japanese),
W77-12012 1023 5A

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

Effect of Ferric Hydroxide Suspension on Blood Chemistry in the Common Shiner, Notropus cornutus,
W77-12237 1023 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

Effects of Hypercapnia on the Buffer Capacity and Haematological Values in Salmo Salar (L.),
W77-12658 1024 5C

FISH POPULATION

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Feeding Ecology of Eelgrass Fish Communities,
W77-11644 1023 5C

FISH POPULATIONS

Evolutionary Aspect of the Reproductive Evology of Salmon of the Genus Salmo in Some Water Bodies of Kamchatka, (In Russian),
W77-00519 1001 2I

Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

Biology of the Snakehead in the Syr Darya Basin, (In Russian),
W77-01427 1003 2I

Some Aquatic Vertebrates from the Namib Desert, South West Africa,
W77-01493 1003 2I

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

Lake Whitefish (Corregonus Clupeaformis (Mitchill) in Southern Indian Lake, Manitoba,
W77-02821 1006 2H

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Year-Class Abundance of Pelagophilic Summer-Spawning Fishes of the Black Sea and Factors Determining It, (In Russian),
W77-04579 1009 2L

Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus (L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

The Fish Community in Lake Erie,
W77-05229 1011 5C

The Early Life History of Fish,
W77-05821 1012 5C

Larval Mortality in Marine Fishes and the Critical Period Concept,
W77-05822 1012 2L

Larval Mortality and Subsequent Year-Class Strength in the Plaice (Pleuronectes Platessa L.),
W77-05823 1012 2L

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

Seasonal Changes in Dimensions and Viability of the Developing Eggs of the Cornish Pilchard (Sardina Pilchardus Walbaum) Off Plymouth,
W77-05825 1012 2L

Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

The Possible Density-Dependence of Larval Mortality and Adult Mortality in Fishes,
W77-05829 1012 2L

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

Significance of Egg and Larval Surveys in the Studies of Population Dynamics of Fish,
W77-05833 1012 2L

Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

Cabora Bassa Fish Populations Before and During the First Filling Phase,
W77-10380 1021 2H

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

A Bew Species of Mastacembelus (Pisces, Mastacembelidae) from the Upper Zambezi River, with a Discussion of the Taxonomy of the Genus from this System,
W77-11556 1023 2I

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

FISH PREY

Causes of a Greater Effect of Predators on Non-Predatory Fish Populations in Low Latitudes, (In Russian),
W77-00521 1001 2I

FISH PROCESSING PLANTS

Screening Demonstration for Three Fish Processing Plant Effluents,
W77-12776 1024 5D

FISH PROTECTIVE FACILITIES

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

FISH REPELLANTS

Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

FISH REPELLENTS

Ecology of Toxicity in Marine Sponges,
*W77-08793 1018 5C

FISH REPRODUCTION

Fecundity of Nelmuschka Coregonus Lavaretus Nelmuschka Pravdin and Its Ecological Background, (In Russian),
W77-00518 1001 2H

Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Reproduction of White Perch in the Lower Hudson River,
W77-03058 1006 2L

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Artificial Insemination in Trout Using A Sperm Diluant,
W77-04529 1009 2I

Year-Class Abundance of Pelagophilic Summer-Spawning Fishes of the Black Sea and Factors Determining It, (In Russian),
W77-04579 1009 2L

Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus (L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

Effects of Benzene (A Toxic Component of Petroleum) on Spawning Pacific Herring, Clupea harengus pallasi,
W77-07137 1015 5C

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

Determination of Organochlorine Pesticides in the Tissue of the Black Mullet (Mugil cephalus) and the Silver Mullet (Mugil curema),
W77-12197 1023 5B

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

FISH SPECIES COMPOSITION

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

FISH STANDING CROP

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

FISH STOCKING

Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

FISH SURVIVAL

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

FISH TAXONOMY

Larvae of Some Flat Fishes From a Tropical Estuary,
W77-04532 1009 2L

Early Life History of Limanda Yokohamae (Gunther),
W77-04533 1009 2I

Comments on 'Fish Communities in Tropical Fresh Waters' by R. H. Lowe-McConnell,
W77-10382 1021 2H

FISH TOXICITY
Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

FISH TOXINS
Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Polychlorinated Biphenyls.
W77-06554 1013 5C

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

Proportions of a Yellow Perch Population Surfacing After a Rotenone Treatment,
W77-11348 1022 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

FISH TRANSPORT
Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

FISH TYPES
Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

FISHERIES
Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

A Predator-Prey Model for Discrete-Time Commercial Fisheries,
W77-01171 1003 6A

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W77-02068 1004 6C

Limnological Characteristics of Strip Mine Ponds in Northwestern Colorado, U.S.A.,
W77-03538 1007 5C

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Fish Fauna of Lakes of the Lower Reaches of the Zarafshan River and its Fishery Use, (In Russian),
W77-08708 1018 2H

Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

Colville River Delta Fisheries Research,
W77-10902 1022 2L

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

Problems in the Adoption of New Ideas and Practices,
W77-11042 1022 6B

New York's Marine Fisheries: Changing Needs in a Changing Environment,
W77-12247 1023 6B

FISHERIES ACT (CANADA)
Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

FISHERY WASTE
Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

FISHES
Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Environmental Status of the Lake Michigan Region. Vol. 17. Inland Fishes of the Lake Michigan Drainage Basin,
W77-03566 1007 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

FISHING
The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

Pollution of Interstate Waters of the Lower Columbia River Bonneville Dam to Cathlamet, Washington.
W77-03385 1007 5B

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

State v. Sieminski (State's Right to Regulate Scallop Fishing in the High Seas).
W77-06566 1013 6E

Law At Sea,
W77-11175 1022 6E

International Law, World Order and Human Progress,
W77-11474 1022 6E

FISHING GEAR
Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

FISHKILL
Waters--Fish and Game--Deposit of Pesticides in Public Waters.
W77-01042 1002 6E

Energy Dispersive X-Ray Analysis (EDAX) as an Autopsy Technique for Copper-Caused Fish Mortality,
W77-01460 1003 5A

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

State Dept of Pollution Control V International Paper Co. (Determination of Fish Value That were Killed by Pollutants).
W77-03498 1007 6E

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

Gas Bubble Disease,
W77-06018 1012 5C

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

The Influence of Underwater Explosion on Fish, (In Japanese),
W77-07316 1015 8H

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

Mass Mortalities of Lates (Pisces: Centropomidae) in Lake Albert,
W77-10191 1021 2H

Large Scale Mortality of Fish at St Lucia,
W77-10197 1021 2H

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

Proportions of a Yellow Perch Population Surfacing After a Rotenone Treatment,
W77-11348 1022 5C

FISHKILL CREEK (NY)

Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

FISHKILLS

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

Studies of the Causes of Fish Mortality in Lake Balaton in 1975, (In Hungarian),
W77-12981 1024 5B

FISHWAY

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

FISSION PRODUCTS

Method of Separation of Fission and Corrosion Products and of Corresponding Isotopes from Liquid Waste,
W77-08020 1016 5D

FJORDS

Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

Surface Water Pollution-the Catchment Area at Sandefjord, (In Norwegian),
W77-01587 1004 5B

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

Control of Fjordic Deep Water Renewal by Runoff Modification,
W77-03975 1008 2L

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

A Canadian Arctic Fjord with Some Comparisons to Fjords of the Western Americas,
W77-03977 1008 2L

Algological Observations in the Iddefjord and the Adjacent Fjord Areas, S.E. Norway, (In Norwegian),
W77-05196 1011 5C

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

The Lateral Movement of the Coastal Water and Its Relation to Vertical Diffusion,
W77-08058 1016 2L

Deep Water Renewal and Associated Processes in North Norway,
W77-09947 1020 2L

Analytical Model of Dispersion in Tidal Fjords,
W77-10303 1021 5B

Fluorescence Tracing of the Flow and Dispersion of Sulfite Wastes in a Fjord System,
W77-12333 1024 5B

FLAGELLATES

Mutual Effect of Zooflagellates, Algae and Bacteria, (In Russian),
W77-04137 1009 5C

Studies on the Mechanisms of Red Tide Occurrence in Hakata Bay: II. General Features of Red Tide Flagellate, Heterosigma sp., (In Japanese),
W77-10740 1021 5C

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

FLAGFISH

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-06255 1013 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-11526 1023 5C

FLAMBEAU RIVER (WIS)

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

FLAME IONIZATION DETECTOR

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

FLAME PHOTOMETRY

Assessment of Cadmium in Fishes From Carinthian Lakes, (In German),
W77-01593 1004 5A

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

FLAME RETARDANTS

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

FLAMING GORGE RESERVOIR (UTHA-WYO)

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

FLASH DISTILLATION

Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

The MSF/FBE: An Improved Multi-Stage Flash Distillation Process,
W77-11441 1022 3A

Development and Testing of a Wastewater Recycler and Heater,
W77-12493 1024 5D

FLASH FLOOD

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

FLASH FLOODS

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Flash Floods.
W77-01933 1004 2E

Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

Hydraulic Performance of Flumes for Measurement of Sediment-Laden Flash Floods,
W77-01935 1004 2E

Disasters Caused by Flash Floods,
W77-01937 1004 2E

Operational Arrangement of Raingauge Stations in Forecasting Flash Floods,
W77-01938 1004 4A

Warning System for Severe Floods,
W77-01939 1004 7B

The Operational Use of Digital Radar Data for Flash Flood Monitoring,
W77-01941 1004 7B

Systems for Preparing Timely Flash Flood Warnings,
W77-01942 1004 4A

Flash Floods in India,
W77-01943 1004 2E

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

Guidelines for Flash Flood and Small Tributary Flood Prediction,
W77-03114 1007 4A

The Big Thompson Flood of 1976 in Colorado,
W77-04247 1009 2E

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Flash Floods in the Western Mediterranean (Les Crues Catastrophiques sur la Mediterranee Occidentale),
W77-08245 1017 2E

Flash Floods in Spain (Les Crues Brutales En Espagne),
W77-08247 1017 2E

The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

A Methodology for Measuring Flash Floods (Methodologie Pour La Mesure Des Crues Brutales),
W77-08249 1017 2E

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

FLAT VALVE BAILER
Bailing,
W77-04288 1009 8C

FLATFISH
Seasonal Distributions of Larval Flatfishes (Pleuronectiformes) on the Continental Shelf Between Cape Cod, Massachusetts, and Cape Lookout, North Carolina, 1965-66,
W77-01064 1002 2L

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

FLATHEAD CATFISH
Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

FLATHEAD LAKE (MONT)
Limnological Studies of Flathead Lake, Montana: A Status Report,
W77-01796 1004 5C

FLATHEAD LAKE (MT)
Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

FLATWORMS
Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

FLAVORS (FISH)
Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

FLAX POND MARSH (NY)
Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

FLEEINGHORSE LAKE
The Argillotrophic Lake System,
W77-11416 1022 5C

FLEVOLAND (NETHERLANDS)
Occurrence of Oscillatoria Agardhii Gom. in Some Shallow Eutrophic Lakes,
W77-09525 1019 5C

FLEX-JOINTS
New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

FLEXIBACTER COLUMNARIS
Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

FLEXIBILITY
States Need Freedom to Innovate (Comment on PL 92-500).
W77-08119 1017 6E

FLEXURAL STRENGTH
Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

FLIN FLON LAKES
Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

FLIP LIP DEFLECTORS
Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

FLIT-MLO
A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

FLOATING ICE
An Experimental and Theoretical Study of the Turbulent and Laminar Convection Generated Under a Horizontal Ice Sheet Floating on Warm Salty Water,
W77-07773 1016 2C

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

FLOATING PLANTS
Certain Characteristic Features of Flowering and Pollination in Duckweeds (Lemnaceae S. Gray),
W77-01778 1004 4A

FLOATS
Float Calibration in Integrated-Float Techniques,
W77-00088 1001 7B

FLOCCULANTS
Method of Treating Wastewater with Flowable Flocculants,
W77-05656 1012 5D

FLOCCULATION
Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Aggregation Treatment Apparatus for Waste Water,
W77-00560 1002 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

The Purification of Industrial Effluent.
W77-02615 1006 5D

Synthetic Flocculants for the Purification of Kraft Mill Effluents (Sinteticheskie flokulyanty dlya ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-03812 1008 5D

Operating Experiences with an Electrolytic Method for Purifying NSSC (Neutral Sulfite Semichemical) Effluent (Betriebserfahrungen mit einem elektrolytischen Verfahren bei der Reinigung von NSSC-Abwasser),
W77-03820 1008 5D

The Optimization of Chemical Precipitation: Flocculation of Municipal Waste Waters,
W77-05324 1011 5D

Aiding of Suspended Solids Removal by Polyelectrolytes (Zastosowanie polielektrolitow do stracania zawiesin w wodach dolowych),
W77-05506 1011 5D

Method of Treating Wastewater with Flowable Flocculants,
W77-05656 1012 5D

New Electroflocculating Process for Treating Industrial Waste Waters (Nuovo procedimento per il trattamento delle acque residue industriali con elettroflocculazione),
W77-05697 1012 5D

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. III. Filtration by Flocculation for the Elimination of Phosphorus from Communal Waste Water (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutzanforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. III. Flockungsfiltration zur Elimination von Phosphor aus Kommunalem Abwasser),
W77-07082 1014 5D

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Poly Aluminum Chloride in Sludge Treatment,
W77-07912 1016 5D

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

Flocculant Use on Tankers,
W77-08906 1018 5G

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

Zeta Potential Measurement,
W77-09908 1020 5A

Gravity Thickening of Water-Treatment-Plant Sludges,
W77-09912 1020 5D

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

Clarifier for Underground Use,
W77-10081 1020 5D

Bioflocculation in the Activated Sludge Process,
W77-10208 1021 5D

Physical-Chemical Treatment System for Sewage.
W77-11701 1023 5D

Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

A Fundamental Study of Removal Mechanisms of Suspended Particles in the Deep Filter (III) (Kyusoku rokaroso no kyodo (III): Teijo rokaji no rihaku to sono sayo kiko no kento),
W77-11829 1023 5D

Bay-Area Industries to Re-Use Treated Wastewater.
W77-12437 1024 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12932 1024 5D

Waste Water Treatment Method and Apparatus,
W77-12934 1024 5D

Waste Water Treatment Method,
W77-12948 1024 5D

FLOOD CHANNELS

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

FLOOD CHARACTERISTICS

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

FLOOD CONTROL

Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

Planning for Storm Water Management,
W77-00770 1002 6F

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Flood Plain Management Alternatives in the Maitland Area (Australia),
W77-00932 1002 4A

Flood Mitigation Strategies: The Role of Insurance and Structural Measures,
W77-00934 1002 6F

Gardner V Hamilton (Right to Exercise Eminent Domain for Flood Control).
W77-00996 1002 6E

Flood Control by State in Cooperation With Federal Agencies.
W77-01007 1002 6E

Federal Regulation of Development in Flood-Prone Wetlands--The Army Corps of Engineers,
W77-01094 1003 6E

Use of Building Codes: To Regulate Florida's Hurricane Flood Plain,
W77-01096 1003 6E

The National Flood Insurance Act of 1968 and Flood Plain Zoning in Arkansas, Nebraska, North Dakota, Mississippi, Tennessee, South Dakota, and Kansas,
W77-01099 1003 6E

Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

South Africa's Own Snowy Mountain Scheme,
W77-01374 1003 8C

Flood Problems in Uttar Pradesh,
W77-01450 1003 2E

Facelift to Beat the Floods.
W77-01477 1003 8A

Flood Measurements in an Urban Environment: A Data User's Viewpoint,
W77-01940 1004 4A

Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

Flood Disaster Protection Act of 1973,
W77-03522 1007 6F

Plan for Improvement of the Delta Levees.
W77-03550 1007 4A

Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

Optimization Model for the Design of Urban Flood-Control Systems,
W77-04179 1009 2E

The Flood Plain Zoning Experience in the Great Lake States,
W77-04364 1009 6E

Marshall Ford Dam and Reservoir, Colorado River, Texas; Revision of Flood Control Regulations.
W77-04369 1009 6E

Flood Control Regulations.
W77-04371 1009 4A

Flood Damage Mitigation.
W77-04724 1010 6F

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

Upper West Fork River Watershed v Corps of Engineers (Construing an Environmental Impact Statement for a Proposed Dam Project).
W77-05073 1010 6E

Response of Ground-Water Levels to Flood Control Operations in Three Basins, Southeastern Florida,
W77-05278 1011 4B

Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Kishwaukee River Flood Plain Information, Winnebago County, Illinois.
W77-05288 1011 4A

Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

Disaster Recovery Planning Report.
W77-05293 1011 6F

Austin v Bedford, Iowa, (Conflict in Conveyance Rights and Use of Dirt Fill).
W77-06070 1012 6E

Powers Respecting Flood Control.
W77-06072 1012 6E

Flood Control in Oklahoma: An Example of Land Use Preceding Land Use Planning,
W77-06542 1013 4A

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Integration of Aquifers in Flood Control Projects,
W77-06723 1014 4A

Optimal Seasonal and Short-Term Operation of a Reservoir Used for Flood Control and Water Supply,
W77-06724 1014 4A

Flood Management Study.
W77-06952 1014 6F

Urbanization and Flooding in Shades Creek Basin, Jefferson County, Alabama,
W77-06977 1014 4C

The Evolution of Approaches to Flood Damage Reduction,
W77-07248 1015 6F

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Determination of the Degree of Protection Offered by Flood Control Systems on the Basis of Distribution Functions,
W77-07673 1016 8B

Wood V. Board of Commissioners for the Pontchartrain Levee District (Land Appropriation for Levees),
W77-08144 1017 6E

Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

Flood Management: Who Benefits and Who Pays,
W77-08303 1017 6F

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

Flood Plains for Open Space and Recreation.
W77-08374 1017 6F

Report on Water Resources Problems of Western Collier County, Florida as Affected by the GAC Corporation's Canal System in Its Golden Gate Development Project,
W77-08380 1017 6E

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Designing for Sediment Transport,
W77-08962 1018 4D

Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
W77-09071 1018 4C

Urbanization and Flooding - An Example,
W77-09161 1019 4C

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

Flood Control.
W77-09585 1019 6E

A Screening Model for Flood Control Planning,
W77-09595 1019 4A

Chicago Plan Designed for Pollution and Flood Control.
W77-09838 1020 4A

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

Bayley V Kane (Enforcement of Order to Remove Improvements Held to Be In Violation of Flood Control Zones Act).
W77-10475 1021 6E

Joubert V. State (State Liable for Flood Damage to Crops Caused by Opening of Dam's Floodgates).
W77-10483 1021 6E

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Louisiana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Tijuana River Flood Control Project,
W77-11167 1022 6E

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

A Perspective on Flood Protection of Agricultural Lands.
W77-11850 1023 6F

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

Modification of River Beds and of the Courses of Rivers in Upper Belgium, (In French),
W77-12183 1023 6C

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

Water Resources Development by the U.S. Army Corps of Engineers in Utah.
W77-12838 1024 6G

FLOOD DAMAGE

Effect of Sequence Length n On the Choice of Assumed Distribution of Floods,
W77-00861 1002 2E

A Stage-Damage Curve for the Brisbane River (Australia),
W77-00943 1002 4A

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

Case Study of Effect of Increased Urbanisation on Flood Damage for Moggill Creek, Brisbane (Australia),
W77-00945 1002 4C

Benefit-Cost Studies in the Pahang River Basin Study (Malaysia),
W77-00947 1002 4A

The Nation's Increasing Vulnerability to Flood Catastrophe,
W77-00961 1002 6F

Gowing V MC Candless (Crop Damage Resulting from Flooding of Obstructed Watercourse).
W77-00999 1002 6E

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

A Study of Various State Flood Plain Regulations in an Effort to Emphasize Florida's Need to Exact Comprehensive Planning and Land use Controls, Which are Designed to Afford Protection Against Hurricane Damage,
W77-01095 1003 6E

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Disaster Protection Act of 1973,
W77-03522 1007 6F

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Floods in New York, 1973 and 1974,
W77-04231 1009 2E

Flood Damage Mitigation.
W77-04724 1010 6F

Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

Flood Effects on Stream Ecosystems,
W77-05949 1012 4D

Brizendine V Nampa Meridian Irrigation District (Duty to Maintain Canal),
W77-06077 1012 6E

Floods of January 15-17, 1974, in Northwestern Montana,
W77-06350 1013 2E

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Mitchell V. City of High Point (Municipal Liability for Damage from Overflow of Privately-Owned Stream).
W77-08145 1017 6E

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Effect of Antecedent Conditions on Frozen Ground Floods,
W77-10175 1021 2C

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

Ingram V City of Redondo Beach (Inverse Condemnation Suit Resulting in Damages for Flooding).
W77-10489 1021 6E

The Big Thompson River Flood of July 31-August 1, 1976, Larimer County, Colorado,
W77-10859 1022 2E

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

FLOOD DAMAGES

Joubert V. State (State Liable for Flood Damage to Crops Caused by Opening of Dam's Floodgates).
W77-10483 1021 6E

FLOOD DATA

Floods of March-April 1973 in Southeastern United States,
W77-00434 1001 2E

Flood Measurements in an Urban Environment: A Data User's Viewpoint,
W77-01940 1004 4A

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

Floods in New York, 1973 and 1974,
W77-04231 1009 2E

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Kishwaukee River Flood Plain Information, Winnebago County, Illinois.
W77-05288 1011 4A

Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

Floods of January 15-17, 1974, in Northwestern Montana,
W77-06350 1013 2E

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Floods in Louisiana, Magnitude and Frequency, Third Edition,
W77-06979 1014 2E

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

Small-Stream Flood Investigations in Minnesota, October 1958 to September 1975,
W77-08481 1017 2E

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

Flood Plain Information: Big and Little Fossil Creeks, Fort Worth, Texas.
W77-09364 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

Flood Plain Information: Little Dry Fork, Love Branch, Burgher Branch, City of Rolla, Missouri.
W77-09372 1019 4A

Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

The Big Thompson River Flood of July 31-August 1, 1976, Larimer County, Colorado,
W77-10859 1022 2E

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

Flood Plain Information: River Rouge, Michigan, Main, Evans Ditch, and Franklin Branches in Wayne and Oakland Counties.
W77-11838 1023 4A

Flood Plain Information: Upper River Rouge, Farmington, Michigan.
W77-11839 1023 4A

Flood Plain Information: Atlanta, Texas: Black Bayou and Tributaries.
W77-11840 1023 4A

Flood Plain Information: Chadakoin River, Jamestown-Falconer, New York.
W77-11841 1023 4A

Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

Blacksmith Fork and Spring Creek Flood Plain Information, Millville, Utah.
W77-11843 1023 4A

Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

Flood Plain Information: Saco River, Fryeburg, Maine.
W77-11847 1023 4A

Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

FLOOD DISASTER PROTECTION ACT

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

FLOOD DISASTER PROTECTION ACT OF 1973

The Flood Disaster Protection Act of 1973,
W77-02427 1005 6F

FLOOD DISCHARGE

Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Case Study of Effect of Increased Urbanisation on Flood Damage for Moggill Creek, Brisbane (Australia),
W77-00945 1002 4C

Flood Characteristics of Streams in Owyhee County, Idaho,
W77-02027 1004 2E

Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne: Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

Flash Floods in Spain (Les Crues Brutales En Espagne),
W77-08247 1017 2E

Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

FLOOD ESTIMATION

Critical Duration of Rainfall for Flood Estimation,
W77-05342 1011 2B

FLOOD EVENTS

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

FLOOD FLOW

Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Flood Envelopes and Frequencies for the Brisbane River (Australia),
W77-00942 1002 4A

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Causes of the Drying up of Forests in the Flood Plain of the Lower Reaches of the Ural River, (In Russian),
W77-06801 1014 4D

The Evolution of Approaches to Flood Damage Reduction,
W77-07248 1015 6F

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

FLOOD FORECASTING

A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

Flood Problems in Uttar Pradesh,
W77-01450 1003 2E

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Flash Floods.
W77-01933 1004 2E

Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

Operational Arrangement of Raingauge Stations in Forecasting Flash Floods,
W77-01938 1004 4A

Warning System for Severe Floods,
W77-01939 1004 7B

Systems for Preparing Timely Flash Flood Warnings,
W77-01942 1004 4A

Flood Characteristics of Streams in Owyhee County, Idaho,
W77-02027 1004 2E

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

Guidelines for Flash Flood and Small Tributary Flood Prediction,
W77-03114 1007 4A

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

Magnitude and Frequency of Floods in Nebraska,
W77-03886 1008 2E

Flood Studies Report.
W77-04244 1009 2A

Hydrograph Analysis: A Computerized Separation Technique,
W77-05117 1011 4A

Critical Duration of Rainfall for Flood Estimation,
W77-05342 1011 2B

Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

Community Self-Help River Forecast Procedures,
W77-06086 1012 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

Urbanization and Flooding in Shades Creek Basin, Jefferson County, Alabama,
W77-06977 1014 4C

Techniques for Estimating Flow Characteristics of Wyoming Streams,
W77-07495 1015 4A

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

Small Catchment Flood Modelling,
W77-10083 1020 2E

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

Effect of Land Use Management on Flood Predictions,
W77-10181 1021 4C

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

Flood-Prone Areas of Jacksonville, Duval County, Florida,
W77-10557 1021 2E

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

Flood Risk Map, Carman, Manitoba.
W77-12770 1024 7C

FLOOD FREQUENCY

Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

Effect of Sequence Length n On the Choice of Assumed Distribution of Floods,
W77-00861 1002 2E

Frequency Analysis of Flood Data in Queensland (Australia),
W77-00936 1002 4A

Flood Envelopes and Frequencies for the Brisbane River (Australia),
W77-00942 1002 4A

Flood Characteristics of Streams in Owyhee County, Idaho,
W77-02027 1004 2E

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

Magnitude and Frequency of Floods in Nebraska,
W77-03886 1008 2E

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

Multivariable Flood Level Frequency Distributions,
W77-03996 1008 8B

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

Flood Frequency--Expected and Unexpected Probabilities,
W77-05747 1012 4A

Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

Floods of January 15-17, 1974, in Northwestern Montana,
W77-06350 1013 2E

Investigations on the Structure of Frequency Distributions of Floods,
W77-07649 1016 2E

Bayesian Estimation of Frequency of Hydrological Events,
W77-07650 1016 2E

The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

FLOOD FRINGE AREA

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

FLOOD HAZARD

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

FLOOD HAZARDS

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

FLOOD INSURANCE

The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

FLOOD IRRIGATION

Experts Cling to Water Myths,
W77-02120 1005 3F

FLOOD MANAGEMENT

Flood Management: Who Benefits and Who Pays,
W77-08303 1017 6F

FLOOD MITIGATION

Flood Mitigation Strategies: The Role of Insurance and Structural Measures,
W77-00934 1002 6F

FLOOD PEAK

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

Magnitude and Frequency of Floods in Nebraska,
W77-03886 1008 2E

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Theoretical Probability Distribution of Critical Hydrologic Events by the Partial-Duration Series Method,
W77-09109 1019 2B

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Flood Plain Information: Little Dry Fork, Love Branch, Burgher Branch, City of Rolla, Missouri.
W77-09372 1019 4A

Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

FLOOD PLAIN

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

FLOOD PLAIN INSURANCE

Planning for Storm Water Management,
W77-00770 1002 6F

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

Flood Mitigation Strategies: The Role of Insurance and Structural Measures,
W77-00934 1002 6F

The Nation's Increasing Vulnerability to Flood Catastrophe,
W77-00961 1002 6F

Floodplain Management: The Iowa Experience,
W77-00962 1002 6F

Federal Regulation of Development in Flood-Prone Wetlands--The Army Corps of Engineers,
W77-01094 1003 6E

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

The Flood Disaster Protection Act of 1973,
W77-02427 1005 6F

Flood Disaster Protection Act of 1973,
W77-03522 1007 6F

Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

The National Flood Insurance Program: Explanation and Legal Implications,
W77-03956 1008 6F

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Flood Management Study.
W77-06952 1014 6F

The Evolution of Approaches to Flood Damage Reduction,
W77-07248 1015 6F

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

FLOOD PLAIN MANAGEMENT

Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

Flood Plain Management Alternatives in the Maitland Area (Australia),
W77-00932 1002 4A

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Disaster Recovery Planning Report.
W77-05293 1011 6F

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Flood Management Study.
W77-06952 1014 6F

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

FLOOD PLAIN MANAGEMENT PROGRAM

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

FLOOD PLAIN MAPPING

Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

FLOOD PLAIN SOILS

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

FLOOD PLAIN ZONING

Planning for Storm Water Management,
W77-00770 1002 6F

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

The Nation's Increasing Vulnerability to Flood Catastrophe,
W77-00961 1002 6F

Floodplain Management: The Iowa Experience,
W77-00962 1002 6F

A Study of Various State Flood Plain Regulations in an Effort to Emphasize Florida's Need to Exact Comprehensive Planning and Land use Controls, Which are Designed to Afford Protection Against Hurricane Damage,
W77-01095 1003 6E

Use of Building Codes: To Regulate Florida's Hurricane Flood Plain,
W77-01096 1003 6E

The National Flood Insurance Act of 1968 and Flood Plain Zoning in Arkansas, Nebraska, North Dakota, Mississippi, Tennessee, South Dakota, and Kansas,
W77-01099 1003 6E

The Flood Disaster Protection Act of 1973,
W77-02427 1005 6F

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

The National Flood Insurance Program: Explanation and Legal Implications,
W77-03956 1008 6F

The Flood Plain Zoning Experience in the Great Lake States,
W77-04364 1009 6E

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

Flood Control in Oklahoma: An Example of Land Use Preceding Land Use Planning,
W77-06542 1013 4A

Flood Management Study.
W77-06952 1014 6F

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

Bayley V Kane (Enforcement of Order to Remove Improvements Held to Be In Violation of Flood Control Zones Act).
W77-10475 1021 6E

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

FLOOD PLAINS

Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

Planning for Storm Water Management,
W77-00770 1002 6F

Accuracy of Evapotranspiration Rates Determined by the Water-Budget Method, Gila River Flood Plain, Southeastern Arizona,
W77-00868 1002 2D

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Flood Plain Management Alternatives in the Maitland Area (Australia),
W77-00932 1002 4A

Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

The Nation's Increasing Vulnerability to Flood Catastrophe,
W77-00961 1002 6F

The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

A Two-Dimensional Flood Routing Model,
W77-01358 1003 4A

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Hydrogeologic Characteristics of the Missouri River Valley Flood Plain,
W77-02194 1005 2F

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

National Program for Managing Flood Losses: Guidelines for Preparation, Transmittal, and Distribution of Flood-Prone Area Maps and Pamphlets,
W77-03341 1007 7C

Some Problems in the Study of the Inundation of River Flood Plains by Aerospace Methods,
W77-03847 1008 4A

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

Flood Plain Information: Hocking River, Athens, Ohio.
W77-04211 1009 4A

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

Special Flood Hazard Information Report: Betz Road Ditch, City of Bellevue, Nebraska.
W77-04217 1009 4A

Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

A Study of Habitat Water Regime of Inundated Meadows Near Osijek, (In Croatian),
W77-04582 1009 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

Flood Plain Information: North Platte River, Scottsbluff, Nebraska.
W77-05302 1011 4A

Flood Plain Information: Agua Fria River, Maricopa County, Arizona,
W77-05303 1011 4A

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Causes of the Drying up of Forests in the Flood Plain of the Lower Reaches of the Ural River, (In Russian),
W77-06801 1014 4D

Hydraulics of Sheet Flow in Wetlands,
W77-06929 1014 8B

Flood Management Study.
W77-06952 1014 6F

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

The Evolution of Approaches to Flood Damage Reduction,
W77-07248 1015 6F

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Special Flood Hazard Report: Jersey Creek, Kansas City, Kansas.
W77-07636 1016 4A

Flood Plain Information: Allegheny River, Venango County, Pennsylvania,
W77-07641 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

Flood Plains for Open Space and Recreation.
W77-08374 1017 6F

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Economics of Permanent Flood-Plain Evacuation,
W77-08856 1018 6B

Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
W77-09071 1018 4C

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

Flood Plain Information: Vermilion River and Tributaries, Lafayette, Louisiana.
W77-09366 1019 4A

Flood Plain Information: Allegheny River and Lillibridge Creek, Borough of Port Allegany, Pennsylvania.
W77-09369 1019 4A

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

Prescriptive Models for Nonstructural Floodplain Planning,
W77-10847 1022 6F

Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

FLOOD PROBABILITY LEVEL

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

FLOOD PROFILE

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

FLOOD PROFILES

Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

Flood Plain Information: Hocking River, Athens, Ohio.
W77-04211 1009 4A

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

Special Flood Hazard Information Report: Betz Road Ditch, City of Bellevue, Nebraska.
W77-04217 1009 4A

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

Flood Plain Information: North Platte River, Scottsbluff, Nebraska.
W77-05302 1011 4A

Flood Plain Information: Agua Fria River, Maricopa County, Arizona,
W77-05303 1011 4A

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
W77-09071 1018 4C

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Flood-Prone Areas of Jacksonville, Duval County, Florida,
W77-10557 1021 2E

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

FLOOD-PRONE AREA MAPS

National Program for Managing Flood Losses: Guidelines for Preparation, Transmittal, and Distribution of Flood-Prone Area Maps and Pamphlets,
W77-03341 1007 7C

FLOOD PROOFING

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

FLOOD PROTECTION

Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

Flood Standards - The Role of Engineering Institutions,
W77-00935 1002 6F

Benefit-Cost Studies in the Pahang River Basin Study (Malaysia),
W77-00947 1002 4A

Floodplain Management: The Iowa Experience,
W77-00962 1002 6F

Facelift to Beat the Floods.
W77-01477 1003 8A

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Flood Disaster Protection Act of 1973,
W77-03522 1007 6F

Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Flood Damage Mitigation.
W77-04724 1010 6F

Jefferson County V Johnson (Comprehensive Land Management and Use Program in Flood-Prone Areas Act),
W77-04931 1010 6E

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Flood Control in Oklahoma: An Example of Land Use Preceding Land Use Planning,
W77-06542 1013 4A

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Integration of Aquifers in Flood Control Projects,
W77-06723 1014 4A

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

Determination of the Degree of Protection Offered by Flood Control Systems on the Basis of Distribution Functions,
W77-07673 1016 8B

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

Flood Management: Who Benefits and Who Pays,
W77-08303 1017 6F

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Flood Control.
W77-09585 1019 6E

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

An Analysis of Flood Levee Reliability,
W77-11224 1022 4A

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

FLOOD RECURRENCE INTERVAL
Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

FLOOD RISK
Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

FLOOD ROUTING
A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

A Regional Stormwater Drainage Model,
W77-00940 1002 4A

The Mathematical Modelling of Rivers,
W77-00941 1002 2E

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

A Two-Dimensional Flood Routing Model,
W77-01358 1003 4A

The Flood Plain Zoning Experience in the Great Lake States,
W77-04364 1009 6E

Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

End Depth Under Zero-Inertia Conditions,
W77-10302 1021 8B

Bayley V Kane (Enforcement of Order to Remove Improvements Held to Be In Violation of Flood Control Zones Act).
W77-10475 1021 6E

Storm Management Program is Model for Others,
W77-10612 1021 4A

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

FLOOD STAGES
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

Maximum Known Stages and Discharges of New York Streams Through 1973,
W77-00485 1001 7C

A Stage-Damage Curve for the Brisbane River (Australia),
W77-00943 1002 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

FLOOD TOLERANCE (PLANTS)
Soil Aeration, Nitrate Reduction and Flooding Tolerance in Higher Plants,
W77-11517 1023 3C

FLOOD WARNING
Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

FLOOD WARNING NETWORKS
The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

FLOOD WAVES
Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

Statistical Analysis Applied to the Study of the Components of a Flood Wave,
W77-07674 1016 2E

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

A Mathematical Model for Flood Wave Simulation Using Synthetic Rainfall Data for a Vast Watershed,
W77-12095 1023 2E

FLOODED SOILS
Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

FLOODING
Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Distribution of Assimilates in Soybeans During Fruit Growth in Flooded Soil, (In Russian),
W77-06421 1013 3F

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

Ingram V City of Redondo Beach (Inverse Condemnation Suit Resulting in Damages for Flooding).
W77-10489 1021 6E

Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

Conditions of the Emergence of Soil Toxicity During Application of Straw and Flooding, (In Russian),
W77-12983 1024 2G

FLOODPLAIN MANAGEMENT SYSTEM
A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

FLOODPROOFING

Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

FLOODS

Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

Mathematical Model for Predicting the Consolidation of Dredged Material in Confined Disposal Areas,
W77-00167 1001 5B

Floods of March-April 1973 in Southeastern United States,
W77-00434 1001 2E

Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

The Nation's Increasing Vulnerability to Flood Catastrophe,
W77-00961 1002 6F

Norman and Schaen, Inc V Dallas (Without Causing Increase in Water Flow Across Property, City Not Responsible for Faulty Drainage System).
W77-00995 1002 6E

Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Flash Floods.
W77-01933 1004 2E

Hydraulic Performance of Flumes for Measurement of Sediment-Laden Flash Floods,
W77-01935 1004 2E

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

Wet and Dry Periods of Annual Flow Series,
W77-03319 1007 2E

Glassman V. Weldin Farms, Inc. (No Right in Upper Land Owner to Artificially Increase the Natural Drainage of Surface Water to Increase Flooding on Land of Lower Property).
W77-03518 1007 6E

Some Problems in the Study of the Inundation of River Flood Plains by Aerospace Methods,
W77-03847 1008 4A

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

Flood Plain Information: Hocking River, Athens, Ohio.
W77-04211 1009 4A

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

Special Flood Hazard Information Report: Betz Road Ditch, City of Bellevue, Nebraska.
W77-04217 1009 4A

Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

Floods in New York, 1973 and 1974,
W77-04231 1009 2E

Flood Studies Report.
W77-04244 1009 2A

Morphometry and Floods in Small Drainage Basins Subject to Diverse Hydrogeomorphic Controls,
W77-04265 1009 2E

Flood Damage Mitigation.
W77-04724 1010 6F

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

Comparative Climatic Analysis of Lower Mississippi River Floods: 1927, 1973, and 1975,
W77-05158 1011 2E

Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

Disaster Recovery Planning Report.
W77-05293 1011 6F

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

Flood Plain Information: North Platte River, Scottsbluff, Nebraska.
W77-05302 1011 4A

Flood Plain Information: Agua Fria River, Maricopa County, Arizona,
W77-05303 1011 4A

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Floods of January 15-17, 1974, in Northwestern Montana,
W77-06350 1013 2E

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

Flood Plain Information: Redwood River at Marshall, Minnesota.
W77-06584 1013 4A

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Evaluation of the Environmental Impact to Appalachian Pennsylvania Waters of the 1972 Flood and Subsequent Stream Channelization with Future Policy Recommendations.
W77-06676 1014 4A

Hydrological Evaluation of Changes in Runoff Characteristics,
W77-06732 1014 4A

Flood Management Study.
W77-06952 1014 6F

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

Floods in Louisiana, Magnitude and Frequency, Third Edition,
W77-06979 1014 2E

London's Stormwater Problem,
W77-06983 1014 5D

Design Criteria for Hydrologic Extremes,
W77-07165 1015 8B

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

Special Flood Hazard Report: Jersey Creek, Kansas City, Kansas.
W77-07636 1016 4A

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Flood Plain Information, Cherry Creek-Cherry Creek Lake Through Franktown, Colorado.
W77-07639 1016 4A

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Flood Plain Information: Allegheny River, Venango County, Pennsylvania,
W77-07641 1016 4A

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

Investigations on the Structure of Frequency Distributions of Floods,
W77-07649 1016 2E

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

Measurement of Flash Floods in the United States--State of the Art,
W77-08161 1017 2E

The Flooding of Rivers in the USSR and the Measures Taken to Control Ice Jams (Les Inondations Fluviales En URSS Et La Lutte Contre Les Crues Causees Par Les Embacles),
W77-08246 1017 2C

Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

Annual Peak Discharges from Small Drainage Areas in Montana Through September 1976,
W77-08482 1017 2E

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

Flood Plain Information: Vermilion River and Tributaries, Lafayette, Louisiana.
W77-09366 1019 4A

Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

Flood Plain Information: Allegheny River and Lillibridge Creek, Borough of Port Allegany, Pennsylvania.
W77-09369 1019 4A

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

Flood Plain Information: Little Dry Fork, Love Branch, Burgher Branch, City of Rolla, Missouri.
W77-09372 1019 4A

Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

Flood-Prone Areas of Jacksonville, Duval County, Florida,
W77-10557 1021 2E

Operational Applications of NOAA-VHRR Imagery in Alaska,
W77-10672 1021 4A

Floods and Droughts,
W77-10788 1021 2E

The Big Thompson River Flood of July 31-August 1, 1976, Larimer County, Colorado,
W77-10859 1022 2E

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Streamflow Transmission Losses in Western Kansas,
W77-10966 1022 4A

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

Alabama Power Company v Martin (Power Company Estopped from Asserting Flood Easement Rights).
W77-11184 1022 6E

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

Flood Plain Information: Upper River Rouge, Farmington, Michigan.
W77-11839 1023 4A

Blacksmith Fork and Spring Creek Flood Plain Information, Millville, Utah.
W77-11843 1023 4A

Rainfall-Discharge Transformation Models May be Divided Into Two Catagories (Les Modeles Deterministes De Transformation Des Precipitations En Debit),
W77-12090 1023 2A

A Mathematical Model for Flood Wave Simulation Using Synthetic Rainfall Data for a Vast Watershed,
W77-12095 1023 2E

Deterministic and Stochastic Modelling of Floods in Mountain Regions,
W77-12104 1023 2A

Maximum Floodflows in the Conterminous United States,
W77-12156 1023 7C

Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

Severe Floods in Jammu and Kashmir in August 1973,
W77-12556 1024 2B

FLOODWATER

Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp,
W77-09286 1019 5C

FLOODWAYS

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

FLOOL PLAIN

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

FLORA
Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

FLORA VISTA ARROYO (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

FLORIDA
Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Public Rights to Artificial Waterbodies in Florida,
W77-01088 1003 6E

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

The Development and Implementation of the Coastal Construction Setback Line Law,
W77-01090 1003 6E

Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Legal Considerations Concerning Oyster Cultivation in Florida,
W77-01092 1003 6E

Tidal Boundaries in Florida,
W77-01093 1003 6E

A Study of Various State Flood Plain Regulations in an Effort to Emphasize Florida's Need to Exact Comprehensive Planning and Land use Controls, Which are Designed to Afford Protection Against Hurricane Damage,
W77-01095 1003 6E

Use of Building Codes: To Regulate Florida's Hurricane Flood Plain,
W77-01096 1003 6E

Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Redevelopments on the Oceanfront,
W77-01100 1003 6E

Water Management and Administration in the Southwest Florida Water Management District,
W77-01101 1003 6E

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

Differential-Head--Lake-Level Relationships in the Middle-Gulf Area, Florida,
W77-01922 1004 4B

Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River Estuary (Florida),
W77-01964 1004 5G

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Movement of Fertilizer and Herbicide Through Irrigated Sands,
W77-02219 1005 5B

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Hydrology of Lake County, Florida,
W77-02316 1005 4B

Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

Silver Content of Precipitation from Seeded and Nonseeded Florida Cumuli,
W77-02485 1005 2K

Drainage of Vertical Columns of Lakeland Sand,
W77-02510 1005 2G

Detection of Subsurface Solution Cavities in Florida Using Electrical Resistivity Measurements,
W77-02517 1005 2F

Removal of Algae from Florida Lakes by Magnetic Filtration,
W77-02522 1005 5D

Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Sebastian Inlet. Glossary of Inlets Report No. 3,
W77-02673 1006 2L

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Calibration of a Thermal Enrichment Model for Shallow, Barricaded Estuaries,
W77-03171 1007 5B

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

State Dept of Pollution Control V International Paper Co. (Determination of Fish Value That were Killed by Pollutants).
W77-03498 1007 6E

Water Management and Regulation of Water Use,
W77-03525 1007 6B

Those Nasty Phosphatic Clay Ponds,
W77-03596 1007 5G

Artificial and Natural Lakes,
W77-03694 1008 6E

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

Legal Protection for Florida Wetlands,
W77-03696 1008 6E

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Coastal Zone Management in Florida,
W77-03699 1008 6E

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

Canal Authority V Ocala Manufacturing Ice and Packing Company (Construction of Cross Florida Barge Canal).
W77-03715 1008 6E

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Efforts in Marine Revegetation in Artificial Habitats,
W77-03949 1008 5G

Aspects of Red Mangrove Reforestation in Florida,
W77-03950 1008 5G

Suggested Mangrove Transplanting Techniques,
W77-03951 1008 5G

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

Utilization of Energy by Primary Producers in Four Ponds in Northwestern Florida,
W77-04165 1009 5C

Terraces and Shorelines of Florida,
W77-04229 1009 7C

The Coastal Interface: Who Owns What,
W77-04362 1009 6E

Askew V Game and Fresh Water Fish Commission (Pollution Abatement Efforts Held Constitutional).
W77-04379 1009 6E

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

Jurisdiction and Grounds for Denial by State and Federal Agencies of Dredge and Fill Operations,
W77-04923 1010 5G

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

Water Levels in Artesian and Nonartesian Aquifers of Florida, 1973-74,
W77-04985 1010 4B

Model Water Pollution Statute,
W77-05042 1010 5G

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

Growth with Environmental Awareness,
W77-05044 1010 6E

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

Boron in Coastal North Florida Rainfall,
W77-05152 1011 2K

Response of Ground-Water Levels to Flood Control Operations in Three Basins, Southeastern Florida,
W77-05278 1011 4B

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Potential Influence of Thermal Effluents on the Production and Water-Use Efficiency of Mangrove Species in South Florida,
W77-05546 1011 5C

Seasonal Distribution of a Podocopid Ostracod in a Thermally Altered Area of Tampa Bay, Florida,
W77-05577 1011 5C

Chronic In Situ Exposure of the Bay Scallop to Power-Plant Effluents,
W77-05578 1011 5C

The Macrobenthic Community of a Thermally Altered Area of Tampa Bay, Florida,
W77-05585 1011 5C

Florida Water Resources Law, A Bibliography,
W77-05670 1012 6E

The Environment of South Florida, A Summary Report,
W77-05738 1012 6G

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Rainfall Results, 1970-1975: Florida Area Cumulus Experiment,
W77-05975 1012 3B

Predictive Water Demand Model for Central and Southern Florida,
W77-06047 1012 6D

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Surge Effects from Hurricane Eloise,
W77-06085 1012 2L

Modules Permit Easy Expansion,
W77-06131 1013 5D

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

Littoral Drift Estimates Along the Coastline of Florida,
W77-06882 1014 2L

Incipient Sediment Motion in Entrances with Shell Beds,
W77-06930 1014 2L

Coastal Facility Guidelines: A Methodology for Development with Environmental Case Studies on Marinas and Power Plants,
W77-06936 1014 6G

Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

A Scientific and Legal Look at Thermal Pollution,
W77-07256 1015 6E

Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

The Feasibility of a Water Importation Project for South Florida,
W77-07259 1015 6E

Economic Aspects of Pollution Abatement, Part I,
W77-07260 1015 6E

Legal Aspects of Changes Brought About by Buckeye's Pollution Abatement Program, Part II,
W77-07261 1015 6E

Life History Patterns in the Coastal Shiner, Notropis Petersoni, Fowler,
W77-07386 1015 5C

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

Federal Statutory Modification of Private Water Rights in South Florida,
W77-08112 1017 6E

Water Resources of the Myakka River Basin Area, Southwest Florida,
W77-08167 1017 4B

Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

Report on Water Resources Problems of Western Collier County, Florida as Affected by the GAC Corporation's Canal System in Its Golden Gate Development Project,
W77-08380 1017 6E

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

Biscayne Bay Symposium II,
W77-08961 1018 5G

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

A 'Rough Cut' Model of a South Florida Water Supply Plan,
W77-08980 1018 4B

Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

Aquatic Baseline Survey of Selected Test Areas on Eglin Air Force Base Reservation, Florida,
W77-09499 1019 7C

Lake Drawdown as a Method of Improving Water Quality,
W77-09516 1019 5G

State of Florida V Florida National Properties, Inc. (Riparian Boundaries in Meandered, Fresh-Water Lakes).
W77-09577 1019 6E

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

Florida's Land Use Restrictions: Are They Serving the Public Interest,
W77-10465 1021 6E

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

Disposal of Salt Water During Well Construction, Problems and Solutions,
W77-10519 1021 5G

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Flood-Prone Areas of Jacksonville, Duval County, Florida,
W77-10557 1021 2E

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

Summary Statements of Water Resources Investigations 1976-77,
W77-10863 1022 9C

Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Matanzas Inlet Glossary of Inlets Report No. 5,
W77-11051 1022 2L

State Protection from Oil Spills: Askew v American Waterways Operators, Inc.,
W77-11153 1022 6E

Mangroves as Monitors of Change in the Spanish River,
W77-11155 1022 6E

Florida Environmental Permitting and Wetlands Protection Act (Proposed Legislation).
W77-11177 1022 6E

Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

United States V Joseph G Moretti, Inc (Court Approved Compromise for Restoration of Area Damaged by Development).
W77-11457 1022 6E

Empirical Predictors for Natural and Seeded Rainfall in the Florida Area Cumulus Experiment (FACE), 1970-1975,
W77-11596 1023 3B

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

Water Resources Data for Florida, Water Year 1975--Volume 2. Southern Florida.
W77-11876 1023 7C

Water Resources Data for Florida, Water Year 1975--Volume 1. Northern Florida.
W77-11877 1023 7C

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

Meteorological Regimes for the Classification of Aerospace Air Quality Predictions for NASA-Kennedy Space Center,
W77-12542 1024 5A

Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

Hutchinson Island: Evaluation as a Potential Area of Critical State Concern.
W77-12585 1024 6G

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

FLORIDA AREA CUMULUS EXPERIMENT (FACE)

Empirical Predictors for Natural and Seeded Rainfall in the Florida Area Cumulus Experiment (FACE), 1970-1975,
W77-11596 1023 3B

FLORIDA CURRENT

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

FLORIDA PANHANDLE
Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

FLORIDA PHOSPHATE ROCK
The Activity Concept of Phosphate-Rock Solubility,
W77-00290 1001 2K

FLORIDA STRAITS
Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

FLORIDA WATER RESOURCES ACT OF 1972
Water Management and Administration in the Southwest Florida Water Management District,
W77-01101 1003 6E

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

FLORIDAN AQUIFER
Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

FLOTATION
Dissolved Air (Pressure) Flotation - An Evaluation of Inter-Relationships Between Process Variables and their Optimisation for Design,
W77-01367 1003 5D

Purification of Industrial Waste Waters by Flotation,
W77-01740 1004 5D

Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolytically Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

'Give Flotation a Try' was Challenged.
W77-03439 1007 5F

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Reduction of Suspended Solids in Woodroom Effluents (Reduksjon av suspendert materiale i avlopsvann fra tommerrenserier),
W77-04810 1010 5D

Treatment of Effluent by Flotation Processes,
W77-05511 1011 5D

Treatment of Water and Effluent: Air Flotation.
W77-05515 1011 5D

Flotation Treatment of Waste Water and Sewage-Using Gas Contg. Oxygen in Deep Pit to Float the Particles,
W77-07894 1016 5D

Air Flotation of Oily Waste Waters with Organic Coagulants,
W77-08282 1017 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Microflotation in Effluent Purification (Mikroflotation in der Abwasseraufbereitung),
W77-09899 1020 5D

Treatment of Water and Effluent by Air Flotation.
W77-11717 1023 5D

Characteristics of a Fluidized Bed and its Effect on the Course of the Flotation Process (Kharakteristika pennogo sloya i ego vliyanie na khod flotatsionnogo protsessa),
W77-12355 1024 5D

Waste Water Treatment,
W77-12927 1024 5D

FLOTSAM
Long Island Beach Pollution: June 1976,
W77-07325 1015 5B

FLOUNDER
Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

Polyamine Synthesis in Liver and Kidney of Flounder in Response to Methylmercury,
W77-11518 1023 5C

FLOUNDERS
Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

FLOURIDES
A Double Blind Test for Determination of Intolerance to Fluoridated Water: Preliminary Report,
W77-00662 1002 5A

FLOW
Equalization of Time Variable Waste Loads,
W77-00052 1001 5D

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

Similarity of the Mean Motion of Fluid Particles Dispersing in a Natural Channel,
W77-00371 1001 5B

System for Utilizing Energy in a Fluid Current,
W77-01752 1004 8C

Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Physical Exchange in Stream Ecology Studies,
W77-03648 1008 2J

Flow in Corrugated Pipes,
W77-03744 1008 8B

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-04396 1009 2G

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

River Turbine,
W77-05660 1012 4A

Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W77-06010 1012 2A

Optimal Planning of Flows in Multi-Reservoir Hydro-Power Systems,
W77-06730 1014 4A

Free Flow Immediately Below Sluice Gates,
W77-07161 1015 8B

Hydraulic Jumps and Waves at Abrupt Drops,
W77-07163 1015 8B

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

Stochastic Analysis of Velocity Fluctuations in a Natural Stream Channel,
W77-07648 1016 2E

In Hydrology h is a Household Word,
W77-07667 1016 2A

Increasing Sewer Capacity by Polymer Dosing,
W77-07883 1016 8G

Fluid Flow Regulator,
W77-08018 1016 3F

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

Short Jet Impingement,
W77-09016 1018 8B

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

The Identification and Adaptive Prediction of Urban Sewer Flows,
W77-09914 1020 5B

Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

Biological, Chemical and Physical Relationships in the Straits of Mackinac,
W77-10058 1020 5C

Spatially Averaged Flow Over a Wavy Surface,
W77-10103 1021 2E

Speed of Inertial Bed Load Disturbances,
W77-10305 1021 8B

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Analytical Evaluation of Techniques for Use of a Laser Doppler Velocimeter to Measure Flow and Turbulence,
W77-10784 1021 2E

Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

Flow in Fractured Porous Media,
W77-11213 1022 2F

A Stochastic Model for the Simulation of Daily Flows,
W77-11603 1023 2E

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

FLOW AROUND OBJECTS

Hydrodynamic Forces on Multiple Circular Cylinders,
W77-03081 1007 8B

FLOW AUGMENTATION

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

FLOW CHARACTERISTICS

Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
W77-00428 1001 2E

Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Investigation into Methods for Developing a Physical Analysis for Evaluating Instream Flow Needs,
W77-04296 1009 2E

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Techniques for Estimating Flow Characteristics of Wyoming Streams,
W77-07495 1015 4A

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Flow Regimes in Debris Flow,
W77-09045 1018 2J

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

FLOW COMPONENTS

The Integrated Hydrological Catchment Model EGMO,
W77-11815 1023 2A

FLOW CONTROL

Urban Stormwater Detention and Flow Attenuation,
W77-00078 1001 5D

Submerged Burlap Strips Aided Rehabilitation of Disturbed Semiarid Sites in Colorado and New Mexico,
W77-00727 1002 4D

Connecting Channel Between Two Different Water Levels,
W77-01207 1003 8C

Drip Irrigation Device,
W77-01213 1003 3F

Pipe Insertable Emitter for Irrigation Systems,
W77-01225 1003 3F

Water Gate,
W77-01729 1004 8C

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Discharge Computations at River Control Structures,
W77-02986 1006 4A

Flow Equalization by Use of Aeration Tank Volume,
W77-03446 1007 5D

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

River Turbine,
W77-05660 1012 4A

Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Evaluation of In-Line and Side-Line Flow Equalization Systems,
W77-07041 1014 5D

Flow Controller Device,
W77-08017 1016 3F

Fluid Flow Regulator,
W77-08018 1016 3F

Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

Computer Program for Reservoir-Water Budgets,
W77-08464 1017 4A

Polymers are Precisely Managed,
W77-10620 1021 5D

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

FLOW DURATION

Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Flood Plain Information: South Creek, North Creek, Catfish Creek, Clower Creek, Elligraw Bayou and Matheny Creek, Sarasota County, Florida.
W77-06592 1013 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Missouri Stream and Springflow Characteristics Low-Flow Frequency and Flow Duration,
W77-08743 1018 2E

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

FLOW EQUALIZATION
Equalization of Flow Variations in Combined Sewers,
W77-03860 1008 5D

Evaluation of In-Line and Side-Line Flow Equalization Systems,
W77-07041 1014 5D

FLOW GEOMETRY
The Simulation of Whole Core Permeameter Flow Geometry,
W77-05933 1012 2F

FLOW MEASUREMENT
Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

Instrumentation in the Water Industry.
W77-00601 1002 5A

A Passive Flow Measurement System for Storm and Combined Sewers,
W77-00628 1002 5D

An Inexpensive Thermistor Flowmeter for Aquatic Biology,
W77-00645 1002 7B

Dynamically Balanced Apparatus for Water Borne Instruments,
W77-01232 1003 7B

Shunt Line Metering System for Irrigation Wells,
W77-01623 1004 8G

Segmental Orifices with Shunt Meters to Totalize Pipeline Flow,
W77-04269 1009 8B

How to Determine Waste Water Flow,
W77-07881 1016 5F

The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

The Application of Ultrasonic Liquid Flow Measurement to the Water and Waste Water Control industry,
W77-10219 1021 8C

Polymers are Precisely Managed,
W77-10620 1021 5D

How Accurate Are Shop-Made Orifice Plates,
W77-10782 1021 3F

Wastewater Flow Measurement in Sewers Using Ultrasound,
W77-11759 1023 7B

Venturi Flumes for Circular Channels,
W77-12721 1024 8B

FLOW METERS
Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

FLOW METERS (WATER)
Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

FLOW NETS
Shape of a Streamline Water Table Near Inflow and Outflow Boundaries,
W77-09023 1018 2F

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

FLOW PATHS (GROUNDWATER)
Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

FLOW PATTERNS
Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Low Flow Criteria for Diversions and Impoundments,
W77-11778 1023 4A

FLOW PROFILES
Flow at Grade-Break from Mild to Steep Slopes,
W77-03746 1008 8B

Analysis of Flows with Initially Unknown Discharge,
W77-05968 1012 8B

Computer Applications for Step-Backwater and Floodway Analyses,
W77-09090 1018 4A

Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

FLOW RATE
Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

FLOW RATES
History of Irrigation and Characteristics of Streamflow in Nebraska Part of the North and South Platte River Basins,
W77-00859 1002 2E

Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Discharge Computations at River Control Structures,
W77-02986 1006 4A

Experiments on Wastewater Sedimentation,
W77-03574 1007 5D

Segmental Orifices with Shunt Meters to Totalize Pipeline Flow,
W77-04269 1009 8B

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Evaluation of In-Line and Side-Line Flow Equalization Systems,
W77-07041 1014 5D

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

Critical and Brink Depths in Elliptical Sewers,
W77-09841 1020 8B

Discharge Data at Water-Quality Monitoring Stations in Arkansas, 1976 Water Year,
W77-09997 1020 7C

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

Detroit and St. Clair River Transient Models,
W77-11659 1023 6A

FLOW REGIME
Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

FLOW REGIMES
Flow of Slurries in Pipelines,
W77-10970 1022 8B

FLOW REGULATOR
Equalization of Flow Variations in Combined Sewers,
W77-03860 1008 5D

FLOW RESISTANCE
Flow Resistance and Intake Characteristics of Irrigation Furrows,
W77-01893 1004 3F

Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

Resistance Equation for Alluvial-Channel Flow,
W77-02971 1006 8B

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

Flow of Slurries in Pipelines,
W77-10970 1022 8B

Cavitation and Resistance to Water Flow in Plant Roots,
W77-11106 1022 2I

Seasonal Variations in Stomatal Resistance in Cotton,
W77-11108 1022 3F

FLOW RESISTANCE

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

FLOW RESTRICTION WATER
Drip Irrigation Device,
W77-01213 1003 3F

FLOW RESTRICTOR (IRRIGATION)
Flow Restrictor and Trickle Emitter,
W77-08879 1018 3F

FLOW ROUTING
A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

FLOW SEPARATION
Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

Study on Sewage Flow Dynamics Through Dorr Type Clarifier on Stream, (Synopsis),
W77-07048 1014 5D

Theoretical and Experimental Study of Flow Separation After a Sudden Increase in the Cross-Section of a Circular Pipe (Etude Theorique Et Experimentale D' Un Ecoulement Decolle En Aval D'Un Elargissement Brusque De Revolution),
W77-09034 1018 8B

FLOW SYSTEM
Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Linear and Nonlinear Models for Peak Flow Forecasting,
W77-12083 1023 4A

FLOW-THROUGH BIOASSAY
Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

FLOW-THROUGH CULTURES
Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

FLOW-THROUGH DILUTER SYSTEM
Chamber for Holding Aquatic Microinvertebrates During Toxicity Tests in a Flow-Through Diluter System,
W77-12185 1023 5A

FLOW-THROUGH SYSTEMS
A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

FLOWING WELLS (MICH)
Flowing Wells in Michigan 1974,
W77-11375 1022 4B

FLOWMETERS
An Inexpensive Thermistor Flowmeter for Aquatic Biology,
W77-00645 1002 7B

Acoustical Wave Flowmeter,
W77-09809 1020 7B

Wastewater Flow Measurement in Sewers Using Ultrasound,
W77-11759 1023 7B

FLUCTUATING PRESSURE
Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

FLUCTUATING SHORELINES
The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

FLUCTUATIONS
Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

Seasonal and Short-Term Variations in the Concentration and Supply of Dissolved Zinc to Polluted Aquatic Environments,
W77-03778 1008 5B

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

Seasonal Fluctuations in the Abundance of the Larvae of Mackerel and Herring in the Northeastern Atlantic and North Sea,
W77-05834 1012 2L

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Laboratory Apparatus for Providing Diel Temperature Regimes for Aquatic Animals,
W77-07188 1015 5C

Stochastic Analysis of Velocity Fluctuations in a Natural Stream Channel,
W77-07648 1016 2E

Spectral Analysis of the Structure of Hydrological Series,
W77-07653 1016 2E

Finding Regularities in Long-Term Streamflow Fluctuations by Analysis of Hydrological Ensembles,
W77-07676 1016 2E

The Scaling of Velocity Fluctuations in the Surface Mixed Layer,
W77-07768 1016 2L

Aspects of the Daily and Seasonal Course of Transpiration Intensity in Meadow Plants, (In Russian),
W77-08709 1018 2D

Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

FLUID DYNAMICS
Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

FLUID FRICTION
It's Your Loss,
W77-08319 1017 8G

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

FLUID MECHANICS
Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

Design Sewers to be Self-Cleaning,
W77-06103 1013 8G

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

Time Scale and Molecular Weight Distribution Contributions to Dilute Polymer Solution Fluid Mechanics,
W77-12564 1024 8B

FLUID STORAGE
Head Gradient Control in Aquifers Used for Fluid Storage,
W77-12800 1024 4B

FLUIDIZED BED COMBUSION
An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

FLUIDIZED BED REACTOR
Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

FLUIDIZED-BED TREATMENT
Wastewater Treatment Unit Features Fluidized Bed.
W77-06117 1013 5D

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

FLUME EXPERIMENTS
Development of Bed Configurations in Coarse Sands,
W77-10980 1022 8B

FLUMES
Flume Studies with Fine and Coarse Sands,
W77-02976 1006 2J

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Energy Relations of Density-Current Flows: An Experimental Investigation,
W77-06317 1013 2J

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

Development of Bed Configurations in Coarse Sands,
W77-10980 1022 8B

FLUORAPATITE
Supersaturation Phenomena and the Formation of Fluorapatite in Aqueous Suspensions of Phosphate Rock,
W77-03074 1006 2G

FLUORESCENCE
Optical Remote Sensing of Water Pollutants,
W77-02192 1005 5A

Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

A Shipboard Oil-in-Water Content Monitor Based on Oil Fluorescence,
W77-11905 1023 5A

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

Fluorescence Tracing of the Flow and Dispersion of Sulfite Wastes in a Fjord System,
W77-12333 1024 5B

FLUORESCENCE SPECTROSCOPY
Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

FLUORESCENT DYE
An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

FLUORIDATION
A Double Blind Test for Determination of Intolerance to Fluoridated Water: Preliminary Report,
W77-00662 1002 5A

Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

Need for Fluoridation of Drinking Water in Krasnodon, (In Russian),
W77-02338 1005 5F

FLUORIDE
Hydrogeology of the Spring Waters with High F Content from the Surroundings of Tendurek Volcano, (In Turkish),
W77-06379 1013 5B

Sanitary and Hygienic Characteristics of Subsurface Waters of the Tselinograd and Turgai Oblasts, (In Russian),
W77-08253 1017 5B

FLUORIDE ANALYSIS
Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

FLUORIDES
Diffusion Cell for Isolation of Hydrogen Fluoride from the Analyzed Sample Determining Fluorine in Water, (In Russian),
W77-02105 1005 5A

Examination of the Fluoride Concentration in Drinking Water of the Town of Titograd, (In Serbo-Croatian),
W77-04334 1009 5A

Mobile Method of Determining Fluorides in Drinking Water, (In Russian),
W77-04337 1009 5A

Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

FLUORINE
Diffusion Cell for Isolation of Hydrogen Fluoride from the Analyzed Sample Determining Fluorine in Water, (In Russian),
W77-02105 1005 5A

Fluorine in Drinking Water of Eastern Slovakia, (In Russian),
W77-03056 1006 5A

Hydrogeology of the Spring Waters with High F Content from the Surroundings of Tendurek Volcano, (In Turkish),
W77-06379 1013 5B

A Rapid Volumetric Method of Determining Fluorine in Water, (In Russian),
W77-07950 1016 5A

Removal of Fluorine from Waste Waters. III. Fundamental Tests with Chemical Reagents (Haisuichu no fusso jokyo nikansuru kenkyu. III. Shiyaku kei niyoru kisoshiken),
W77-08626 1018 5D

FLUOROBORATES
Waste Treatment of Fluoroborate Solutions,
W77-11924 1023 5D

FLUOROMETRY
Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Modification of a Commercial Spectrofluorometer for Rapid Determination of Near Infrared Emission,
W77-02537 1005 2K

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

FLUOSOLIDS
Fluosolids Incinerator Commissioned at Esher,
W77-07018 1014 5E

FLUSHING
Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

Investigation of Flushing Time in the Lafayette River, Norfolk, Virginia,
W77-06881 1014 2L

FLUTE FORMATION
A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

FLUTES
The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

FLUVIAL HYDRAULICS
Minimum Unit Stream Power and Fluvial Hydraulics,
W77-03080 1007 8B

FLUVIAL PROCESS
A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

FLUVIAL PROCESSES
Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

FLUVIAL SEDIMENTS
Stratigraphy of the Paleocene and Lower Part of the Eocene in Western Tennessee,
W77-02315 1005 2F

An Examination of the Variance Minimization Tendencies of A Supraglacial Stream,
W77-05141 1011 2E

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

Mercury in Waterways that Drain into the Wash, in Eastern England,
W77-10152 1021 5B

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

FLUVIC ACID
Fulvic Acid and Aquatic Manganese Transport,
W77-12136 1023 5B

FLY ASH
Performance of Lignite and Subbituminous Fly Ash in Concrete - A Progress Report,
W77-02803 1006 8F

The Potential Trace Metal Contamination of Water Resources through the Disposal of Fly Ash,
W77-02873 1006 5B

FLY ASH

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

FLY ASH ABSORPTION
Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

FLYSCH ROCKS
Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

FOAM
Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

FOAM FRACTIONATION
Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

FOAM SEPARATION
Foamy Complex Formation for Removing and Recovering of Heavy Metal Ions in Dilute Solutions with N-Monodecanoyl Diethylenetriamine,
W77-01998 1004 5D

Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W77-07217 1015 5D

Foam Breaking--A Key Process in Detoxification of Kraft Mill Effluents by Foam Separation,
W77-10693 1021 5D

FOAMING
Chemical Characteristics and Acute Toxicity of Foam on Two Aerated Lagoons,
W77-00752 1002 5C

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

FOG
Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

A Note on the Contribution of Rime and Surface Hoar to the Accumulation on the Ross Ice Shelf, Antarctica,
W77-02469 1005 2C

Electrostatic Induction Parameters to Attain Maximum Spray Charge to Clear Fog,
W77-03299 1007 3B

Compressed Air for Supercooled Fog Dispersal,
W77-06674 1014 3B

A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence: Part II. Charged Drop Seeding,
W77-11828 1023 2B

Effects of Fog Droplets on Wake Vortex Decay Rate,
W77-12823 1024 2B

FOG CLEARING
Electrostatic Induction Parameters to Attain Maximum Spray Charge to Clear Fog,
W77-03299 1007 3B

FOG DISPERSAL
Compressed Air for Supercooled Fog Dispersal,
W77-06674 1014 3B

FOG DISSIPATION
A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence: Part II. Charged Drop Seeding,
W77-11828 1023 2B

FOG DRIP
Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

FOLIAGE
Effect of Increasing Foliage and Soil Reflectivity on the Yield and Water Use Efficiency of Grain Sorghum,
W77-11951 1023 3F

FOLIAGE REFLECTANCE
Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

FOLIAGE REMOVAL
Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

FOLIAR ELEMENTS
Elements in Leaves of a Trembling Aspen Clone by Crown Position and Season,
W77-06441 1013 2I

FOOD ABUNDANCE
The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

The Role of Irrigation in Food Production,
W77-09535 1019 3F

Partial Analysis of the Microplankton in the Lagoon of Pueblo Viejo, State of Vera Cruz, Mexico, (In Spanish),
W77-10066 1020 2L

Food Production Potential from Home Gardens,
W77-12623 1024 3F

FOOD AND COVER CROPS
Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

FOOD AVAILABILITY
Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

FOOD CHAIN
Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

FOOD CHAINS
Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

Causes of a Greater Effect of Predators on Non-Predatory Fish Populations in Low Latitudes, (In Russian),
W77-00521 1001 2I

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Bioconcentration of 14C-Pesticides by Bluegill Sunfish During Continuous Aqueous Exposure,
W77-01320 1003 5C

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Marine Polyculture Based on Natural Food Chains and Recycled Wastes,
W77-02662 1006 5C

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Limnological Characteristics of Strip Mine Ponds in Northwestern Colorado, U.S.A.,
W77-03538 1007 5C

Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Plutonium Foodchains,
W77-04520 1009 5C

Food Pathways in Regulated Lakes, (In Swedish),
W77-04746 1010 2H

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Study of a Human Population Exposed to Methylmercury from Fish Consumption, (In French),
W77-05688 1012 5C

Algae in Copper Treated Fish Ponds,
W77-05860 1012 5C

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

The Production of Marine Organisms Under Natural Conditions and in Cultures (In German),
W77-06375 1013 5C

Effects of Zooplankton Grazing on Nuisance Algal Blooms,
W77-06398 1013 5C

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

Survival of Mayfly Larvae Under Mine Acid Conditions,
W77-07128 1015 5C

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

FOOD HABITS

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

FOOD INDUSTRY

Water Pollution Control Act of 1972, Economic Impacts, Direct and Cumulative Industry Impacts.
W77-04304 1009 5G

FOOD PROCESSING

Water Pollution Control Act of 1972, Economic Impacts, Direct and Cumulative Industry Impacts.
W77-04304 1009 5G

High Gradient Magnetic Separation of Food Processing Wastewater,
W77-07852 1016 5D

Meeting Effluent Discharge Requirements and Water Reuse,
W77-10343 1021 5D

FOOD PROCESSING INDUSTRIES

Environmental Management '76. An Overview of Federal and Provincial Activities - Environment Canada, The Big Clean-Up Goes On,
W77-05502 1011 5G

New Ion Exchange Systems for the Beet Sugar Industry. Part III. Processing of Ion Exchange Waste,
W77-05520 1011 5D

FOOD PROCESSING INDUSTRY

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Food Processing Residuals Management a Systems Approach,
W77-01813 1004 3E

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Application of Ultra Filtration/Reverse Osmosis Technique for the Fractionation of Cheese Whey - A Waste Disposal of the Dairy Industry,
W77-02598 1006 5D

Aerobic and Anaerobic Microbial Treatment Alternatives for Shellfish Processing Wastewaters in Continuous Culture,
W77-02599 1006 5D

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

The Depuration of Waste Waters from Food-Preserving Factories. Influence of Sodium Chloride Concentration on the Depuration Yield of an Extended-Aeration Activated-Sludge Plant (Sulla depurazione degli scarichi idrici delle industrie conserviere. Influenza della concentrazione del cloruro sodico sul rendimento di depurazione in un impianto biologico funzionate ad aerazione prolungata),
W77-05501 1011 5D

An Approach to Effluent Treatment in the Food Industry,
W77-05504 1011 5D

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

High Gradient Magnetic Separation of Food Processing Wastewater,
W77-07852 1016 5D

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Occupational Characteristics and Biological Kinetic Constants of Extended Aeration Process,
W77-08270 1017 5D

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

FOOD PROCESSING WASTES

Land Application of Waste Materials.
W77-04607 1010 5B

New Pre-Treatment Method Without Chemical Reagents for Organic Wastes of Wine Distilleries (Nouveau procede de pre-traitement rejets des d'origine organique destine aux distilleries ou autres sans apport d'adjuvants),
W77-05503 1011 5D

A Thermal Controller for the Short COD Determination,
W77-09415 1019 5A

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

FOOD PRODUCTION

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

FOOD RESIDUES

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

FOOD WEB

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

FOOD WEBS

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

A Food Web Model for Lake Michigan: Part I-Justification and Development of the Model,
W77-09631 1020 5C

FOODS

Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

Improving Food Crop Production in the Sudan Savanna Zone of Northern Nigeria,
W77-08459 1017 3F

Anaerobic Digestion of Rum Stillage,
W77-09416 1019 5D

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

FORAGE CROPS
Nitrogen and Irrigation in Forage Crop Rotations, (In German),
W77-12996 1024 3F

FORAGE FISHES
Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

FORAGE GRASSES
Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Irrigating with Wastewater in Sonoma County,
W77-10624 1021 5D

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

FORAGE PALATABILITY
Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Quantification of Beneficial Effects of Sprinkler Irrigation Apart from Increase in Crop Yield, (In German),
W77-10726 1021 3F

FORAGES
Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

FORAGING
Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

FORAMINIFERS
Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

FORCE COEFFICIENTS
Hydrodynamic Forces on Multiple Circular Cylinders,
W77-03081 1007 8B

FORCED DRYING
An Evaporation Equation for an Open Body of Water Exposed to the Atmosphere,
W77-01338 1003 2D

FORCED EVAPORATION
An Evaporation Equation for an Open Body of Water Exposed to the Atmosphere,
W77-01338 1003 2D

FORCHHEIMER EQUATION
Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

FOREBAY NITROGEN
Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

FORECAST EQUATIONS
An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

FORECASTING
Long-Range Forecasting of Maximum Ice Extent on the Great Lakes,
W77-00276 1001 2C

Forecasts of Atlantic and Gulf Menhaden Catches Based on the Historical Relation of Catch and Fishing Effort,
W77-00388 1001 6C

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

Dynamics, Stock and Forecast of Fish Catches in Lakes of the Kura-Araks Lowland, (In Azerbaijani),
W77-01609 1004 5C

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

Modele D'Amenagement et De Gestion D'un Grand Bassin Hydrographique, (A Model for the Design and Management of a Large Hydrographic Basin),
W77-01887 1004 4A

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

Strategic Environmental Assessment System, Residuals Forecasting, An Analysis of Results,
W77-01958 1004 5G

Hygienic Problems of Forecasting the Quality of Water Resources, (In Russian),
W77-02071 1004 5G

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Prediction of Water Transmission in Conditioned Soils,
W77-03451 1007 2G

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

Hybrid Computer Model of St. Venant Equations,
W77-03832 1008 2E

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Forecastings a Line of Investigations of Member Countries of the Council of Mutual Economic Assistance in the Area of Environmental Hygiene, (In Russian),
W77-04016 1008 5G

Development of Commercial/Institutional Parameter Units for the Main II System of Water Demand Forecasting,
W77-04182 1009 6D

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Prediction of the Phytoplankton Development in Designed Reservoirs by Combining a Growth-Model and the Analogy to Existing Reservoirs, (In German),
W77-04584 1009 5C

Prediction of Vinyl Chloride Monomer Migration from Rigid PVC Pipe,
W77-04720 1010 5B

Prediction of Future Nitrate Concentrations in Ground Water,
W77-04757 1010 5B

The State of Kansas, State Water Plan Studies, Part B, Kansas Long Range Water Requirements.
W77-04852 1010 6B

Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

Numerical Predictions of Two-Dimensional Transient Groundwater Flow by the Method of Characteristics,
W77-05173 1011 2F

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

Predictive Water Demand Model for Central and Southern Florida,
W77-06047 1012 6D

Sediment Yield Prediction Based on Watershed Hydrology,
W77-06656 1014 4D

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

Hydraulics of Sheet Flow in Wetlands,
W77-06929 1014 8B

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

Day Degree Growth Models for Intertidal Oysters,
W77-07376 1015 2L

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Statistical Forecasting of Snow Avalanches, San Juan Mountains, Southern Colorado, U.S.A.,
W77-08055 1016 2C

A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

A Predictive Phosphorus Model for Lakes - Sensitivity Analysis and Applications,
W77-08499 1017 5C

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

Optimal Filtering Techniques for Hydrological Forecasting,
W77-09111 1019 2E

Predicting Attainable Irrigation Efficiencies in the Upper Snake River Region,
W77-09137 1019 3F

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

Modeling the Hydrodynamic Effects of Large Man-Made Modification to Lakes,
W77-09177 1019 5B

Adaptive Short-Term Water Demand Forecasting,
W77-09202 1019 6D

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

Relation of Some Meteorological Elements to Avalanching in the Dukant River Basin (Western Tien-Shan),
W77-09718 1020 2C

Forecasting: The Challenge to the Aquatic Sciences,
W77-10190 1021 6B

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

Method for Roughly Estimating the Water Exchange of a Reservoir with an Aquifer Hydraulically Connected with It,
W77-10321 1021 4B

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Predicting Particle-Size Composition of Eroded Soil,
W77-11409 1022 2J

Infiltration and Redistribution of Water in Soils, (In Dutch),
W77-11471 1022 2G

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

Rainfall Parameters to Predict Surface Runoff Yields and Soil Losses from Selected Field-Plot Studies,
W77-11964 1023 2B

Methodology for Evaluating the Cost of Urban Stormwater Quality Management,
W77-12075 1023 6B

A Physically-Based Model to Predict Runoff Under Variable Rain Intensity,
W77-12182 1023 4A

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

Prediction of Longitudinal Dispersion in Natural Streams,
W77-12330 1024 2E

An Acoustic Emissions Monitoring System for Avalanche Snowpacks,
W77-12368 1024 2C

A Model to Predict Concentration and Head-Loss Profiles in Filtration,
W77-12406 1024 5D

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Urban Runoff Characteristics: Volume I - Analytical Studies,
W77-12477 1024 5B

A Model to Predict Total Energy Requirements and Economic Costs of Irrigation Systems,
W77-12503 1024 3F

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

A Long-Term (1860-1970) Change in the Regime of Barometric Pressure at Jerusalem and Its Relation to Rainfall,
W77-12827 1024 2B

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

FOREIGN COUNTRIES

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

The Ground Water Legal Regime as Instrument of Policy Objectives and Management Requirements,
W77-01181 1003 6E

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Flood Studies Report.
W77-04244 1009 2A

Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Pollution Fees are for Real in France,
W77-06046 1012 5G

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

Water Pollution from Industrial Sources in Sweden and Recent Trends to Prevent It,
W77-06383 1013 5G

Annual Amount of Precipitation in the USSR, According to Corrected Data,
W77-06508 1013 2B

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne: Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

Water Quality Criteria and Waste Water Treatment,
W77-07522 1015 5D

The Use of LANDSAT-1 Imagery for Water Quality Studies in Southern Scandinavia,
W77-08435 1017 5A

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the Federal Republic of Germany.
W77-09461 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in France.
W77-09463 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

Petroleum Legislation in the North Sea Countries,
W77-09542 1019 6E

The (West German) Waste Water Discharge Tax Law (Das Abwasserabgabengesetz),
W77-10695 1021 5G

The Application of Technology in Developing Countries.
W77-11637 1023 6B

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

FOREIGN PROJECTS

Multipurpose Development on the Tisza River.
W77-03957 1008 4A

Brief Summary of the Hydrogeology of Bangladesh,
W77-06342 1013 4B

Proposed Hydrologic Analyses of Streamflow for Brazil,
W77-06343 1013 2E

The Application of Technology in Developing Countries.
W77-11637 1023 6B

FOREIGN RESEARCH

Filtration Research in UK Universities,
W77-06120 1013 5D

Status of Desalination Research and Technology in the Middle East,
W77-11109 1022 3A

Aerospace Research of the Environment. Geobotany, Soil Science, and Hydrology.
W77-12820 1024 7B

FOREIGN TRADE

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Deepwater Port Act of 1974: Some International and Environmental Implications,
W77-10456 1021 6E

FOREIGN WATERS

The Degree of Effectiveness of International Law as Regards International Rivers,
W77-04354 1009 6E

FOREMOST AREA (ALBERTA)

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

FOREST CANOPY

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

FOREST DRAINAGE

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

FOREST FIRES

Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-03375 1007 5B

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

Hydrologic Response and Nutrient Concentrations Following Spring Burns in an Oak-Hickory Forest,
W77-11613 1023 4C

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-12852 1024 5C

FOREST LAKE (MAINE)

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

FOREST LAND

The Effect of Rainfall Intensity on Storm Flow and Peak Discharge from Forest Land,
W77-09125 1019 2B

FOREST MANAGEMENT

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Municipal Watershed Management Survey,
W77-00608 1002 5B

Airflow Patterns and Snow Accumulation in a Forest Clearing,
W77-00726 1002 4C

Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

Geotechnical Management of Forest Lands in Granitic Terrane,
W77-00800 1002 4C

The Heat Balance in the Forest-Steppe Mesophilic Deciduous High Oak Forest 'Les Na Vorskle' Under Abnormal Weather Conditions, (In Russian),
W77-00964 1002 2I

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Nutrient Recycling and the Stability of Ecosystems: Implications for Forest Management in the Southeastern U.S.,
W77-01420 1003 2K

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W77-01424 1003 2D

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Clearing an Alligator Juniper Watershed with Saws and Chemicals: A Cost Analysis,
W77-01430 1003 4D

Timber and Water,
W77-01480 1003 4C

Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

Effects of Pulpwood Harvesting on the Quality of Stream Waters of Forest Catchments Representing a Large Area in Western Alberta, Canada,
W77-02774 1006 5B

Afforestation in Low Rainfall Areas,
W77-03139 1007 4D

Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

Effects of Forest Cultural Treatments Upon Streamflow,
W77-03795 1008 4C

A Comparison of Modeling and Statistical Evaluation of Hydrologic Change,
W77-03800 1008 4D

An Investigation into the Effects of Forestry Plantations on the Water Quality of Upland Reservoirs in Northern Ireland,
W77-03840 1008 5B

Alteration of Water Regulating and Protective Features of the Forest Under Influence of Forestry Measures, (In Russian),
W77-04002 1008 4C

Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

Drought Resistance of Larch Species Introduced to the Central Forest-Steppe Region, (In Russian),
W77-05098 1010 4A

Snow Accumulation as Related to Meteorological, Topographic, and Forest Variables in Central Sierra Nevada, California,
W77-05113 1011 2C

Using Representative Watersheds to Manage Forest and Range Lands for Improved Water Yield,
W77-05120 1011 4D

Noise Abatement in a Pine Plantation,
W77-05122 1011 4A

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Operational Considerations for the Application of Remotely Sensed Forest Data from LANDSAT or Other Airborne Platforms,
W77-08417 1017 7C

Timber Type Separability in Southeastern United States on LANDSAT-1 MSS Data,
W77-08418 1017 4A

Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

Computer Implemented Classification of Vegetation Using Aircraft Acquired Multispectral Scanner Data,
W77-08421 1017 4A

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Ecological and Topographic Series of Vegetation of Erosion Forms of Relief in the Northeast of the Chernigov Territory, (In Ukranian),
W77-09622 1020 2I

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

The Effect of Strip-Cutting on Stream Temperatures in the Hubbard Brook Experimental Forest, New Hampshire,
W77-09807 1020 4C

Forest and Water Reserve Zones.
W77-11196 1022 6E

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

The State of Natural and Introduced Trees and Shrubs After a Prolonged Drought in the Bayala Slatina Area, (In Bulgarian),
W77-12627 1024 4A

FOREST PRODUCTS INDUSTRY

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Plywood, Hardboard and Wood Preserving Segment of the Timber Products Processing Point Source Category,
W77-02554 1005 5G

FOREST RESIDUES

Land Application of Waste Materials.
W77-04607 1010 5B

FOREST SOILS

Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
W77-00511 1001 2G

Study of the Erosion Stability of the Plow Layers of Gray Forest Soils of the Northern Forest-Steppe, (In Russian),
W77-00514 1001 4D

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Hydrologic Differences Between Selected Forested and Agricultural Soils in Hawaii,
W77-07765 1016 2G

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

A Comparison of Environments of Rain Forests in Dominica and Puerto Rico,
W77-10988 1022 2G

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

FOREST WATERSHED

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

FOREST WATERSHEDS

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

Municipal Watershed Management Survey,
W77-00608 1002 5B

Kinematic Wave Theory Applied to Stormflow from a Mountain Catchment,
W77-00950 1002 4C

Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

Afforestation, Catchment Protection and Water Supply Demands,
W77-01371 1003 4D

Municipal Watershed Management Survey,
W77-01422 1003 4D

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Water Yields Resulting from Treatments on the Workman Creek Experimental Watersheds in Central Arizona,
W77-01660 1004 4C

Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Effects of Pulpwood Harvesting on the Quality of Stream Waters of Forest Catchments Representing a Large Area in Western Alberta, Canada,
W77-02774 1006 5B

The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

Effects of Antecedent Soil Moisture on Storm Hydrographs,
W77-05603 1012 2A

Forest Fertilization and Water Quality in the North Carolina Piedmont,
W77-08508 1017 5B

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

Nitrogen Uptake and Release in a Forested Watershed, Lake Tahoe Basin, California,
W77-10753 1021 5C

Modeling Soil Water Hydrology Under A Post Oak (Quercus Stellata Wangenh.) - Shortleaf Pine (Pinus Echinata Mill.) Stand in East Texas,
W77-11228 1022 2G

FORESTED AREA

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

FORESTED AREAS

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

FORESTED WETLANDS

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

FORESTRY

Afforestation in Low Rainfall Areas,
W77-03139 1007 4D

Effect of Agricultural and Silvicultural Practices on the Runoff from Drainage Basins of the Nizhnedevitskaya Hydrologic Station,
W77-08835 1018 4C

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

FORESTS

The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

Erosion and Sediment from Forest Land Uses, Management Practices and Disturbances in the Southeastern United States,
W77-00787 1002 4C

Geotechnical Management of Forest Lands in Granitic Terrane,
W77-00800 1002 4C

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Water-Retaining Capacity of the Roots of Several Forest Tree Species, (In Bulgarian),
W77-01504 1003 2I

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

The Role of Forest Stands in the Control of Erosion Processes and Other Negative Natural Phenomena,
W77-02785 1006 4D

Experimental Ecology of Selected Vertebrate Species,
W77-03564 1007 6G

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Soil Water Deficits Under Forested and Clearcut Areas in Northern Arkansas,
W77-04254 1009 2G

Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

The Method of Calculating Water-Absorbing Forest Belt Under Tropical Conditions of Cuba, (In Russian),
W77-04747 1010 4A

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

Changes in Forest Structures in the Emmental Expressed in the Tree Count and Distribution and the Possible Long-Term Deterioration of Water Utilization, (In German),
W77-04778 1010 4A

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

Causes of the Drying up of Forests in the Flood Plain of the Lower Reaches of the Ural River, (In Russian),
W77-06801 1014 4D

A Model for the Water Regime of a Deciduous Forest with Special Consideration of the Functional Interrelationships Among Meteorological Factors, Soil Water Content and Evapotranspiration, (In German),
W77-06864 1014 2A

Water Flux in Soil and Subsoil on a Steep Forested Slope,
W77-07147 1015 2G

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

FORFEITURE OF WATER RIGHTS

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

FORM DRAG

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

FORMALDEHYDE

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

FORMALIN

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

FORMALIN

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

FORMAMIDE
Quantum-Mechanical Studies of Environmental Effects on Biomolecules: I. Hydration of Formamide,
W77-11645 1023 2K

FORMATION WATER
Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

FORMIC ACID
Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

FORMULA DERIVATION
On a Derivable Formula for Long-Wave Radiation from Clear Skies,
W77-03638 1008 2B

FORMULAS
Simple Formulae for the Estimation of Wet Bulb Temperature and Precipitable Water,
W77-06646 1014 2B

FORMWORK (CONSTRUCTION)
Telescoping Form System Speeds Sewer Concreting.
W77-07879 1016 8F

FORT COLLINS (COLO)
Development of Flood Plain Management for Fort Collins, Colorado - A Case Study of U.S. Practice,
W77-00933 1002 4A

FORT LOUDOUN RESERVOIR (TENN)
Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
W77-05931 1012 5B

FORT RIVER (MASS)
Fort River Ecosystem: Productivity of the Periphyton Component,
W77-00149 1001 5C

FORT UNION SANDSTONE
Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

FORTESCUE RIVER (WA)
The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

FORTRAN IV COMPUTER PROGRAMS
WATEQF-A Fortran IV Version of WATEQ, A Computer Program for Calculating Chemical Equilibrium of Natural Waters,
W77-04226 1009 7C

FORWARD OSMOSIS
Forward Osmosis Extractors,
W77-08340 1017 3A

FOSSIL FUELS
Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Guidelines for the Preparation of Environmental Reports for Fossil-Fueled Steam Electric Generating Stations,
W77-06918 1014 6G

FOULING
Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Destruction of Vegetation on Dams of the Gorky Hydroelectric Power Plant with Herbicides,
W77-10059 1020 4A

FOULING ORGANISMS
The Productivity of Fouling Organism Associations in Lake Zelenetskoe, (In Russian),
W77-08323 1017 5C

FOUNDATION FAILURE
Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

The Dam Busters,
W77-10070 1020 8A

FOUNDATIONS
Stabilization of Potentially Liquefiable Sand Deposits Using Gravel Drains,
W77-10777 1021 8D

FOUR-ELECTRODE CELLS
Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

FOURIER ANALYSIS
Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Water Temperature Forecasting and Estimation Using Fourier Series and Communication Theory Techniques,
W77-04774 1010 2E

Classification of Nested Tributary Basins in Analysis of Drainage Basin Shape,
W77-04880 1010 2E

FOURIER TRANSFORMS
Transform Approach to Solution of Groundwater Flow Equations,
W77-09318 1019 2F

FOURMILE RUN WATERSHED (VA)
Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

FOX CHAIN OF LAKES (ILL)
Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

FOX RIVER (IL)
Evaluation Report: Water Resources Appraisal for Hydroelectric Licensing. Dayton Development, Project No. 287, Fox River, Wisconsin and Illinois.
W77-01511 1003 6F

FOX RIVER (WIS)
Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

FOX RIVER (WISC)
State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

FRACTIONAL BROWNIAN MOTION
Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

FRACTURE PERMEABILITY
Flow in Fractured Porous Media,
W77-11213 1022 2F

FRACTURED BEDROCK
Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

FRACTURES
Using Unconformities to Locate Wells,
W77-04133 1009 8E

FRACTURES (GEOLOGIC)
Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

FRACTURES (GEOLOGY)
Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

100 Mesh Sand Improves Hydraulic Frac Results.
W77-08312 1017 4B

FRACTURING
Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

FRAGIPAN HORIZON (SOILS)
Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

FRAINS LAKE (MICH)
Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

FRANCE
Benthic Bionomy of the Continental Shelf of the French Catalonian Coast: 8. Macrofauna and Meiofauna, Quantitative and Biocenotic Relations, (In French),
W77-00516 1001 2L

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

Study of a Relationship Between Chemical and Bacteriological Pollution in the Coastal Zones, (In French),
W77-02903 1006 5A

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Primary Organic Production in a Brackish Eutrophic Environment (Etang de Berre): Effects of Strong Dilution (From the Waters of the Durance), (In French),
W77-04587 1009 5C

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Characteristics of the Pelagic Environment of the Brackish-Water Lagoons of Bages-Sigean and Salses-Leucate During the Summer of 1974, (In French),
W77-05304 1011 5C

Pollution Fees are for Real in France,
W77-06046 1012 5G

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

A Methodology for Measuring Flash Floods (Methodologie Pour La Mesure Des Crues Brutales),
W77-08249 1017 2E

Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
W77-08955 1018 5C

Study on Economic and Policy Instruments for Water Management. Water Management in France.
W77-09463 1019 6E

Fiberboard Mill Recycles Water.
W77-09728 1020 5D

Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

Changes in the Vertical Distribution of the Planktonic Crustacea in Lake Tazenat and Lake Pavin (Massif Central, France) During the Year, (In French),
W77-12468 1024 2H

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

FRANCE (ATLANTIC COAST)
First Observations on the Introduction of the Fauna Associated with the Japanese Oyster Spat Crassostrea Gigas (Thunberg), Imported on the Atlantic Coast of France, (In French),
W77-12296 1024 2L

FRANCE (BAGET)
Invertebrates and Organic Matter Swept along during Spates, at the Inlet and Outlet of the Karstic System of Baget, (In French),
W77-06007 1012 5B

FRANCE (CLERMONT-FERRAND)
Intensity of Rainfall in Clermone-Ferrand, (In French),
W77-04032 1008 2B

FRANCE (FRANCHE-COMTE)
Deep Water Resources of the Limestones of Franche-Comte: Problems of Quantity and Quality, (In French),
W77-08122 1017 4B

FRANCE (LORRAINE)
Yeasts from Brackish Waters in Lorraine, (In French),
W77-06269 1013 5B

FRANCE (MARSEILLE)
Study of Marine Fauna from Rocky Substrates in the Zone of Sewage Outfall of the City of Marseille (France), (In French),
W77-12982 1024 5C

FRANCE (MASSIF-CENTRAL)
Primary Production and Biomass of Algae Populations in an Oligotrophic Lake in the French Massif Central, (In French),
W77-07398 1015 5C

FRANCE (MELARCHEZ BASIN)
Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

FRANCE (PYRENEES STREAMS)
Primary Production and Oxygen Budget in a Stream of the Central Pyrenees, (In French),
W77-02916 1006 5C

FRANCE (PYRENES)
The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

FRANCE (RANCE ESTUARY)
Hydrobiological Research Related to Large Scale Experimental Pollution Studies in the Rance Estuary: Primary Production in Relation to Certain Physicochemical Parameters, (In French),
W77-12975 1024 5C

FRANCE (RENNES)
Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

FRANCE (SEINE-NORMANDY BASIN)
Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

FRANCE (VOLVIC-SAINT-GENES)
Hydromineral Deposits at Volvic, (In French),
W77-04656 1010 2K

FRANCIS TURBINES
Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

FRANKSTOWN BRANCH JUNIATA RIVER (PA)
Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

FRASER ESTUARY (BC)
Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

FRASER RIVER
The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

FRASER RIVER (BC)
Trace Metal Pollution from a Metropolitan Area: Sources and Accumulation in the Lower Fraser River and Estuary,
W77-03652 1008 5B

FRASER RIVER ESTUARY
Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

FRASER RIVER SYSTEM
U.B.C. Watershed Model,
W77-10969 1022 2A

FRAZIL ICE
Frazil--The Invisible Strangler,
W77-07177 1015 2C

FREDHOLM INTEGRAL EQUATION
Integral-Equation Analysis of Flows Over Eroding Beds,
W77-00682 1002 2J

FREE ENERGY
On The Fracture Properties of Snow,
W77-00083 1001 2C

FREE STREAM TURBULENCE
Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

FREE SURFACE FLOW
Hydrologic Engineering Methods for Water Resources Development, Volume 6, Water Surface Profiles,
W77-03105 1007 8B

FREE SURFACES
Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

Analysis of Flows with Initially Unknown Discharge,
W77-05968 1012 8B

Location of Free Surface in Porous Media,
W77-07162 1015 2F

FREEZE DESALTING PROCESS
Economics of a Freeze Desalting Process Using Cold Seawater Effluent of a Liquid Natural Gas Plant.
W77-00635 1002 3A

FREEZEUPS
Great Lakes Ice Cover, Winter 1975-76,
W77-11054 1022 2C

FREEZING
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

Economics of a Freeze Desalting Process Using Cold Seawater Effluent of a Liquid Natural Gas Plant.
W77-00635 1002 3A

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

Estimation of the Depth of Soil Freezing in Drainage Basins in the Central Part of the Northwestern European USSR,
W77-04259 1009 2G

Artic Casing Pack,
W77-04286 1009 8G

A Stochastic Point-Process Model for the Occurrence of Major Freezes in Lake Constance,
W77-05242 1011 2C

Phase Relationships in Sea Ice as a Function of Temperature,
W77-05428 1011 2C

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

Determination of BOD After Freezing Water Samples (Bestimmung des BSB nach Einfrierung der Wasserproben),
W77-08546 1017 5A

The Freezing Behaviour of Supercooled Water Drops,
W77-09118 1019 2C

The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

Observation of Oscillatory Ice States in a Simple Convection Experiment,
W77-10656 1021 2C

FREEZING SOILS
Suprapermafrost Water,
W77-06630 1014 2C

FRENCH ALPS
Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

FREQUENCY
Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Persistence, Runs and Recurrence of Precipitation,
W77-10110 1021 2B

The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

FREQUENCY ANALYSIS
The Use of Continuous Simulation in the Evaluation of Water Quality Management Plans,
W77-00001 1001 5G

The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

Frequency Analysis of Flood Data in Queensland (Australia),
W77-00936 1002 4A

Multivariable Flood Level Frequency Distributions,
W77-03996 1008 8B

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Flood Frequency--Expected and Unexpected Probabilities,
W77-05747 1012 4A

Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

Floods in Louisiana, Magnitude and Frequency, Third Edition,
W77-06979 1014 2E

A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

Methods for the Evaluation of the Results of the Self-Control-Measurements Carried Out By the Sewage Treatment Plant Operators (Verfahren zur Auswertung der Betriebsergebnisse von Klaerwerken),
W77-11734 1023 5A

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

FREQUENCY CURVES
A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

The Measurement of 1 Min Rain Rates from Weighing Raingage Recordings,
W77-05438 1011 2B

Flood Frequency--Expected and Unexpected Probabilities,
W77-05747 1012 4A

FREQUENCY OF OCCURRENCE (WASTES)
Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

FREQUENCY WAVES
Multivariable Flood Level Frequency Distributions,
W77-03996 1008 8B

FRESH WATER FISH
Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

Ammonia Toxicity,
W77-10946 1022 5C

FRESHWATER
Manganese in Fresh Waters, (In Russian),
W77-00405 1001 5A

Osmosis Process for Producing Energy,
W77-01751 1004 3A

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Supersaturation and Fishery Observations in Selected Alpine Oregon Stream,
W77-04418 1009 5C

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Bibliography of Soviet Literature on Freshwater Hydrobiology and Related Problems for 1975: Part 20, (In Russian),
W77-05854 1012 5B

General Ecological Concepts in Hydrobiology and Problems of Regulating Freshwater Ecosystems, (In Russian),
W77-06134 1013 6G

Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

Rappl and Hoenig Company, Incorporated v. New York State Department of Environmental Conservation (Applicability of Fresh Water Wetlands Act to Artificially Created Wetlands).
W77-07269 1015 6E

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Inland Waters. Monographs from Limnology and Related Areas, Vol. 26, Part 1. The Zooplankton of Inland Waters,
W77-08861 1018 2H

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

FRESHWATER ADAPTATION

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

FRESHWATER ANIMALS

Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

FRESHWATER EXPLORATION

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

FRESHWATER FISH

Morpho-Ecological Characteristics of the Ide, Leuciscus Idus (Linne), from the Kremenchug Reservoir. (In Russian),
W77-00504 1001 2H

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Experiment with a Multipoint System for Judging Carp Fattening Ponds, (In Russian),
W77-06798 1014 2H

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

Further Important Features of the Fish Fauna of the Clanwilliam Olifants River System, Southwestern Cape,
W77-10090 1020 2E

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

Comments on 'Fish Communities in Tropical Fresh Waters' by R. H. Lowe-McConnell,
W77-10382 1021 2H

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Respiratory Behavior of Freshwater Fish in Conditions of Aquatic Confinement and Semi-Confinement, (In French),
W77-11410 1022 5A

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

Mercury Levels in Freshwater Fish of the State of South Carolina,
W77-12223 1023 5A

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

FRESHWATER FISHES

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

FRESHWATER INFLOW

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

FRESHWATER INLAND WETLANDS

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

FRESHWATER LENSES

A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

FRESHWATER MARSHES

A Four-Year Analysis of Vegetation Following an Oil Spill in a Freshwater Marsh,
W77-00147 1001 5C

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Chemical Inputs by a Colony of Franklin's Gulls Nesting in Cattails,
W77-10142 1021 5C

FRESHWATER MUSSELS
The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

FRESNO (CALIF)
Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

FRICTION EFFECTS
Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

FRICTION LOSS
It's Your Loss,
W77-08319 1017 8G

FRITTED GLASS BEAD MATERIAL
Fritted Glass Bead Materials as Tensiometers and Tension Plates,
W77-07760 1016 2G

FROG EGGS
Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

FROG LARVAE
Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

FROGS
Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

The Evaluation of Toxic Effects of Chemicals in Fresh Water by Using Frog Embryos and Larvae,
W77-07132 1015 5C

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

FRONT RANGE
Toxic Metals in Ground Water of the Front Range, Colorado,
W77-10853 1022 5A

FRONT RANGE MOUNTAIN RESERVOIRS (COLO)
Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

FRONTS (WATER)
Characteristics of a Tide-Induced Estuarine Front,
W77-01619 1004 2L

FROST
On Depth Hoar and the Strength of Snow,
W77-08239 1017 2C

FROST ACTION
Artic Casing Pack,
W77-04286 1009 8G

FROTH FLOTATION
Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

FROUDE NUMBER
Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

FROZEN GROUND
Effect of Antecedent Conditions on Frozen Ground Floods,
W77-10175 1021 2C

FROZEN SOILS
Strain Rate Effect on the Strength of Frozen Silt,
W77-02804 1006 8D

Water and Ice Potentials in Frozen Soils,
W77-08828 1018 2C

Effect of Antecedent Conditions on Frozen Ground Floods,
W77-10175 1021 2C

A Method for Cutting and Preparing Thin Sections of Frozen Soils,
W77-10802 1022 2C

Transition of Chemical Elements into Water Extracts from Soils with Different Mineralogical Compositions, (In Russian),
W77-12579 1024 2G

FROZEN-TYPE DAMS
Experience in Construction of a Frozen-Type Dam in Yakutiya,
W77-06529 1013 8A

FRUIT AND VEGETABLE INDUSTRY
Food Processing Residuals Management a Systems Approach,
W77-01813 1004 3E

FRUIT AND VEGETABLE PROCESSING INDUSTRY
Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

FRUIT CROPS
Water Exchange of Juicy Fruits of Trees and Bushes, (In Russian),
W77-09611 1020 2D

Water Repeliency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

FRY
Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

FUCUS
Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

FUCUS SP.
Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

FUCUS VESICULOSUS
The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

FUCUS-VESTICULOSUS
Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

FUEL SPILL COLLECTION
A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

FUEL SPILL NEUTRALIZATION
A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

FUEL SPILL PROBLEM
A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

FUELS
Environmental Factors in Producing Supplemental Fuels,
W77-00390 1001 6G

Grown Organic Matter as a Fuel Raw Material Resource,
W77-00700 1002 3F

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

Conservation as a Major Alternative,
W77-04854 1010 3E

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

Fuel Gas and Electricity from Municipal Sewage,
W77-07065 1014 5D

A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

Reduction and Recovery: Keys to Energy Self-Sufficiency,
W77-09877 1020 5D

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Environmental Quality Research. Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

More Disposal Operations Mixing Sewage Sludge and Municipal Solid Wastes,
W77-12418 1024 5E

Co-Disposal for Solid Wastes and Sewage Sludge,
W77-12426 1024 5E

Energy Uses and Recovery in Sludge Disposal, Part 2,
W77-12498 1024 5E

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

A Preliminary Study of the Toxic Effects of Irradiated Vs. Non-Irradiated Water Soluble Fractions of No. 2 Fuel Oil,
W77-12869 1024 5C

Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

Process for Treating Municipal Wastes to Produce a Fuel,
W77-12940 1024 5E

FULL AIR LIFT SYSTEM
Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

FULVIC ACIDS
Dynamics of Interaction of Cations and Fulvic Acid,
W77-03662 1008 2K

Dynamics of Microbially Produced Fulvic Material in Aquatic Environments Relative to Different Conditions of Temperature and pH,
W77-03664 1008 5C

Measurement of Complexation Properties of Humic and Fulvic Acids in Natural Waters with Lead and Copper Ion-Selective Electrodes,
W77-05679 1012 5A

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Chlorination Reactions of Fulvic Acids in Natural Waters,
W77-09741 1020 5F

FUMIGANT
Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

FUNDULUS
Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

FUNDULUS HETEROCLITUS
Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

FUNDULUS PARVIPINNIS
Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

FUNDULUS SP
Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

FUNGAL DISEASES
Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

FUNGAL METABOLITES
Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

FUNGAL PROPAGULES
Studies on Fungal Propagules in the Weser Estuary (German Bight): I. Quantitative Data 1974, (In German),
W77-07583 1015 5C

FUNGI
Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Adenosine Triphosphate (ATP) Levels in Microbial Cultures and a Review of the ATP Biomass Estimation Technique,
W77-06942 1014 5A

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

FUNGICIDES
Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

FURANACE
Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

FURROW DRAINAGE
Tile Drainage in Bedded Soil or a Draw,
W77-05181 1011 4A

FURROW GEOMETRY
Hydraulic Characteristics of Irrigation Furrows,
W77-12722 1024 8B

FURROW IRRIGATION
Flow Resistance and Intake Characteristics of Irrigation Furrows,
W77-01893 1004 3F

Experts Cling to Water Myths,
W77-02120 1005 3F

He's Automating Dead Level Irrigation,
W77-02195 1005 3F

Comparing Three Mechanical Move Sprinklers with Gated Pipe,
W77-02198 1005 3F

Making Surface Irrigation Work with Automation,
W77-02199 1005 3F

Herbicides and Surface Irrigation-Do They Make A Team,
W77-02200 1005 3F

Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Deep Percolation in a Furrow-Irrigated Sandy Soil,
W77-10169 1021 3F

Subsurface and Furrow Irrigation Evaluation for Bean Production,
W77-11962 1023 3F

Irrigation Tailwater Loss and Utilization Equations,
W77-12506 1024 3F

The Development of a Furrow-Mulch Ridger,
W77-12538 1024 3F

Analysis of High Frequency Furrow Irrigation,
W77-12539 1024 3F

Hydraulic Characteristics of Irrigation Furrows,
W77-12722 1024 8B

FURROW-MULCH RIDGER
The Development of a Furrow-Mulch Ridger,
W77-12538 1024 3F

FURROW SYSTEMS
Hydraulic Characteristics of Irrigation Furrows,
W77-12722 1024 8B

FURROWS
Flow Resistance and Intake Characteristics of Irrigation Furrows,
W77-01893 1004 3F

Hydraulic Characteristics of Irrigation Furrows,
W77-12722 1024 8B

FURUNCULOSIS
Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

FUTURE PLANNING (PROJECTED)
Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

The Impact of Proposed Federal Energy Development on Western Water Resources,
W77-00543 1002 4C

The State of Utah Water.
W77-03560 1007 6D

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

The State of Kansas, State Water Plan Studies, Part B, Kansas Long Range Water Requirements.
W77-04852 1010 6B

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

Environmental Changes in Lake Erie and Their Future Impact on Lake Resources.
W77-09454 1019 5C

Proceedings: Minnesota's Water Resources in the Year 2000, A Conference on Planning and Management.
W77-10177 1021 6B

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

FWPCA 1972 AMENDMENTS
Proceedings: Workshop on Non-Point Sources of Water Pollution.
W77-10159 1021 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

FWPCA AMENDMENTS OF 1972
Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

Of Slime and the River,
W77-01084 1003 5B

Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

Marine Sanitation Device Standard.
W77-03531 1007 5G

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

The Muddy Road to Clean Water,
W77-03587 1007 5G

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

Flood Control Regulations.
W77-04371 1009 4A

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

Getting More from a Limited Natural Resource.
W77-04911 1010 6E

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Developments in Water Quality and Land Use Planning: Problems in the Application of the

Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

House Committee Marks up HR 9560,
W77-07236 1015 5G

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

FYNBOS
Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Results of the Multiple Catchment Experiments at the Jonkershoek Research Station, South Africa. 2. Influence of Protection of Fynbos on Stream Discharge in Langrivier,
W77-01474 1003 4D

GADWALL DUCK
Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

GAGE UNDERCATCH
Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

GAGED WATERSHEDS
Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

GAGING
Nearshore Wave Direction Gage,
W77-06516 1013 7B

GAGING STATIONS
Gaging Sediment-Laden Flows With V-Notch Weirs,
W77-00845 1002 2J

The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

GAINESVILLE LOCK AND DAM (ALA)
Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

GALAXID
Breeding Biology of a Non-Diadromous Galaxiid, Galaxias Vulgaris Stokell, in a New Zealand River,
W77-07389 1015 5C

GALERKIN-FINITE ELEMENT METHOD
On the Relationship Between the Finite Element and Finite Difference Methods,
W77-08168 1017 7A

GALERKIN TECHNIQUE
A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

GALLATIN CANYON (MONT)
The Gallatin Area; A Summary Report,
W77-05295 1011 6B

GALVESTON BAY (TEX)
The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

GALVESTON COUNTY (TEX)
The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

GALVESTON ENTRANCE CHANNEL
Salvops-Hopper Dredge 'A. Mackenzie',
W77-07343 1015 8D

GAMBUSIA
Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

GAME THEORY
Application of Game Theory in Water Management,
W77-04009 1008 6A

Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

Reservoir Operation Under Conflicting Objectives,
W77-07536 1015 4A

GAMETOGENESIS
Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

GAMMA RAY TRANSMISSION
Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

GAMMA RAY TREATMENT
Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

GAMMA RAYS
The Effect of Gamma Irradiation on Pulp and Paper Mill Effluents,
W77-02000 1004 5D

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

Biochemical and Physiological Changes in Egyptian Nile Fish Subjected to Varying Levels of Gamma Irradiation,
W77-10412 1021 5C

Application of Bayesian Decision Theory to Airborne Gamma Snow Measurement,
W77-10688 1021 2C

GAMMARIDS
Comparative Ecophysiology of Gammarids (Crustacea: Amphipoda) From Marine, Brackish and Fresh-Water Habitats, Exposed to the Influence of Salinity-Temperature Combinations. I. Effect on Survival,
W77-07397 1015 5C

GAMMARUS MINUS
Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

GAMMARUS OCEANICUS
Effects of Oil on the Reproduction of the Amphipod Gammarus Oceanicus,
W77-00188 1001 5C

GAMMARUS SALINUS
Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

GAMMARUS ZADDACHI
Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

GANGES RIVER
Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

GARDEN CITY PARK (NY)
Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

GARRISON DIVERSION PROJECT
Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

GARTON PUMP
Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

GARZA-LITTLE ELM RESERVOIR (TEX)
A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

GAS ANALYSIS
Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

GAS BLISTERS
Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

GAS BUBBLE DISEASE
Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

Gas-Bubble Disease Due to Oxygen Supersaturation in Raceway-Reared California Brown Shrimp,
W77-04403 1009 5C

Pathology of Acute and Chronic Exposure of Salmonid Fishes to Supersaturated Water,
W77-04409 1009 5C

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease,
W77-04438 1009 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Review of Gas Supersaturation Research Done by National Marine Fisheries Service at Prescott Field Facility -- 1969-1974,
W77-05091 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

Gas Supersaturation Research - 1975, Prescott Facility - NMFS.
W77-05784 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Gas Bubble Disease,
W77-06018 1012 5C

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

GAS BUBBLE DISEASE SYMPTOMS

The Gas Disease in Fishes,
W77-05481 1011 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

GAS BUBBLE DISEASES

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

GAS BUBBLES

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

GAS CHROMATOGRAPHY

Trace Organic Components as Fingerprints in Gas Chromatographic Identification of Spilled Asphalts,
W77-00085 1001 5A

Carcinogenic Nitrosamines and Their Precursors in Fresh and Polluted Waters,
W77-00146 1001 5A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

Determination of Vinyl Chloride at Micrograms/Liter Level in Water by Gas Chromatography,
W77-00326 1001 5A

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W77-01669 1004 5B

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Lipids of Smittium Culisetae,
W77-02547 1005 5A

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Electron Capture Gas Chromatographic Methodology for the Quantitation of Polychlorinated Biphenyls: Survey and Compromise,
W77-03779 1008 5A

Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

Determination of Volatile Halogenated Hydrocarbons in Water by Gas Chromatography,
W77-03787 1008 5A

Identification of Gasoline Contamination of Groundwater by Gas Chromatography,
W77-03796 1008 5A

Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

Analytical Methods,
W77-04434 1009 5C

Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

Gas Chromatography-Mass Spectrometry of Chlorophenols in Spent Bleach Liquors,
W77-04806 1010 5A

Gas Chromatographic Determination of Trace Amounts of Sulfur Compcunds in Industrial Effluents,
W77-05681 1012 5A

Gas-Liquid Chromatographic Determination of Diflubenzuron (Dimilin) in Water as Its Trifluoroacetyl Derivative,
W77-05691 1012 5A

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

Gas Stripping, Sorption, and Thermal Desorption Procedures for Preconcentrating Volatile Polar Water-Soluble Organics from Water Samples for Analysis by Gas Chromatography,
W77-09746 1020 5A

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Determination of Nitrilotriacetate in Environmental Water by Gas Chromatography of the Trimethylsilyl Ester,
W77-09751 1020 5A

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Determination of Contaminants in Kraft Mill Condensates Using Gas Chromatography (Stanoveni kontaminujicich latek v kondenzatech ze sulfatove celulozky pomoci plynove chromatografie),
W77-10712 1021 5A

Use of Pyrolysis/Gas-Chromatography in Analyzing Low-Volatility Organic Water Pollutants (Die Anwendung der Pyrolyse-Gaschromatographie zur Analytik von schwerluechtigen organischen Wasserinhaltsstoffen),
W77-12363 1024 5A

GAS CHROMOTOGRAPHY

Applications of Direct Aqueous Injection Gas Chromatography and Freeze Concentration for the Determination of Organic Compounds in Water and Waste Waters,
W77-02809 1006 5A

GAS DIFFUSION

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

In Situ Measurement of Gas Diffusion Coefficient in Soils,
W77-09442 1019 2G

GAS EMBOLI

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

GAS EMBOLISM

The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

GAS EXCHANGE

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

GAS-LIQUID INTERACTION

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

GAS RESERVES

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

GAS SATURATION

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

GAS SECRETION

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

GAS SOLUBILITY

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

GAS SUPERSATURATION

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

GAS TURBINE GENERATORS

Gas Turbine Gen-Sets for Sewage Treatment Standby.
W77-12442 1024 5D

GAS VESICLES

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

GASEOUS EXOPTHALMIA

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

GASES

Steel-Plant Stackgas Cleanup: An Attractive Role for Magnetism,
W77-01996 1004 5D

Gas and Leachate from Landfills: Formation, Collection, and Treatment. Proceedings of a Research Symposium.
W77-02394 1005 5E

Current Office of Solid Waste Management Programs - Landfill Activities,
W77-02397 1005 5E

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

Case History of Landfill Gas Movement Through Soils,
W77-02413 1005 5E

A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Use of Intrinsically Safe Instrumentation.
W77-03462 1007 5A

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Gas Bubble Disease, Proceedings of a Workshop Held at Richland, Washington, Oct. 8-9, 1974.
W77-04413 1009 5C

Effects of Long Term Exposure to Supersaturation of Dissolved Atmospheric Gases on Juvenile Chinook Salmon and Steelhead Trout in Deep and Shallow Test Tanks,
W77-04414 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Biological Studies: Laboratory Orientation,
W77-04432 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Analytical Methods,
W77-04434 1009 5C

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

Fuel Gas and Electricity from Municipal Sewage,
W77-07065 1014 5D

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Gas Detectors Determine Health Hazards in Sewage Treatment.
W77-07880 1016 5A

Waste-Water Process,
W77-08100 1016 5D

Higher Gas Yields and Reduced Retention Times Obtained from Anaerobic Digester,
W77-08600 1017 5D

In Situ Measurement of Gas Diffusion Coefficient in Soils,
W77-09442 1019 2G

Pollution Control by Incineration,
W77-12441 1024 5E

GASOLINE

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

Identification of Gasoline Contamination of Groundwater by Gas Chromatography,
W77-03796 1008 5A

GASOLINE COMBUSTION FALLOUT

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connecticut Rivers,
W77-08814 1018 5B

GASTRIC EVACUATION

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

GASTROINTESTINAL DISEASES

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

GASTROPODS

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Cadmium Concentrations in the Tissues of Bullia Digitalis (Prosobranchiata) from the South African West Coast,
W77-10203 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

GATE CONTROL

Clamshell-Type Hydraulic Flow Control Gate,
W77-12817 1024 8C

GATE OPERATION

Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

GATE VIBRATION

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

GATED PIPE (IRRIGATION)

Comparing Three Mechanical Move Sprinklers with Gated Pipe,
W77-02198 1005 3F

GATES

Self-Regulating Tide Gate,
W77-01728 1004 8C

Water Gate,
W77-01729 1004 8C

Flow Control and Transients in the California Aqueduct,
W77-02136 1005 8B

Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VI. Gates, Stop Logs, and Trashracks,
W77-10135 1021 8C

Automation of On-Farm Irrigation Turnouts Utilizing Jack-Gates,
W77-12507 1024 3F

Clamshell-Type Hydraulic Flow Control Gate,
W77-12817 1024 8C

GATUN LAKE (PANAMA CANAL ZONE)

Grazing Effects on Nannoplankton in Gatun Lake, Panama,
W77-07507 1015 5C

GAUZE PAD METHOD

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

GAZA-SINAI SEA COAST REGION

Prospects for an Agro-Industrial Complex on the Gaza-Sinai Sea Coast,
W77-02115 1005 3A

GEARS

Gear Motor Solves Plant's Noise Problem.
W77-09827 1020 8C

GEESE (WILD)

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

GEL PERMEATION CHROMATOGRAPHY

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

GELBSTOFF

Yellow Substance (Gelbstoff) and its Contribution to the Attenuation of Photosynthetically

Active Radiation in some Inland and Coastal South-Eastern Australian Waters,
W77-00448 1001 5C

GELS
Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Use of Inorganic Sorbents for the Purification of Kraft Mill Effluents (Primenenie neorganicheskikh sorbentov dlya grubokoi ochistki vod sul'fat-tsellyuloznogo proizvodstva),
W77-10709 1021 5D

GEMORPHOLOGY
A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

GENERAL EQUILIBRIUM ANALYSIS
A Dynamic Multisector Programming Approach to Regional Water Resource Management,
W77-06737 1014 6A

GENERALIZED MAPPING LANGUAGE
Information Transferral within a Distributed Data Base Via a Generalized Mapping Language,
W77-07813 1016 6A

GENERALIZED PLANNING SYSTEM
A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

Aiding Decision Makers with a Generalized Data Base Management System: An Application to Inventory Management,
W77-07814 1016 6A

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

GENERALIZED PLANNING SYSTEMS
Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

GENERATORS
An Investigation of Techniques to Expedite Synchronizing for Pump-Storage Units and Standby Generating Units,
W77-01686 1004 8C

Gas Turbine Gen-Sets for Sewage Treatment Standby.
W77-12442 1024 5D

GENESEE RIVER (NY)
Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

GENETIC DAMAGE
Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

GENETIC RESISTANCE
Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

GENETICS
Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

Artificial Gynogenesis and Its Application in Genetics and Selective Breeding,
W77-04544 1009 5C

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Preliminary Investigations in Water Treatment with High Energy Electron Beams,
W77-10614 1021 5D

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

GENOA (ITALY)
Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

GENOTYPE
Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

GEOCHEMISTRY
Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Biogeochemical Development of the Lake of Geneva (Switzerland) from 1957 to 1973: Part III, (In French),
W77-03144 1007 5C

Geochemical Interaction in the Recently Industrialized Strait of Canso,
W77-03649 1008 5B

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

Thermal and Chemical Problems of Thermal Waters, Symposium.
W77-08677 1018 2K

Some Features of the Geochemistry of Thermal Water in Platform Areas from Experimental Data,
W77-08679 1018 5B

The Helium Isotopes in Thermal Fluids,
W77-08680 1018 5B

Hydrothermal Processes in the Atlantic Ocean Crust, 26 Degrees N,
W77-08681 1018 2K

Geochemistry of Thermal Waters from Various Geothermal Provinces of India,
W77-08682 1018 2K

Temperature and Chemism of Ground Waters in the Western Areas of the East European Platform,
W77-08683 1018 2K

Geochemistry and Origin of Thermal Waters in Poland,
W77-08684 1018 2K

Thermal Waters in Taiwan, A Preliminary Study,
W77-08685 1018 4B

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Reactions of Metal Ions at Surfaces of Hydrous Iron Oxide,
W77-10566 1021 2K

Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

Aspects of Size Distributions, Mineralogy and Geochemistry of Deltaic and Adjacent Shallow Marine Sediments, North Arctic Alaska,
W77-10897 1022 2L

Groundwater Chemistry and the Transport Equations,
W77-12112 1023 2F

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

Geothermal Investigations in Idaho: Part 7, Geochemistry and Geologic Setting of the Thermal Waters of the Camas Prairie Area,
W77-12782 1024 4B

Hydrogeochemical Relationships Using Partial Correlation Coefficients,
W77-12808 1024 2F

GEOGRAPHIC REGIONS
Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

GEOGRAPHICAL METHODS
Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

GEOGRAPHICAL REGIONS
Geographic Areas of Particular Concern.
W77-02687 1006 2L

GEOGRAPHY
Climatology for Geographers,
W77-06659 1014 2B

Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

GEOHYDROLOGIC UNITS
Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

Characteristics of Aquifers in the Northern Uinta Basin Area, Utah and Colorado,
W77-10559 1021 2F

GEOLOGIC CONTROL
Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

GEOLOGIC FORMATIONS
Stratigraphy of the Paleocene and Lower Part of the Eocene in Western Tennessee,
W77-02315 1005 2F

Sampling: One Key to Drilling Success,
W77-04279 1009 8G

Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

GEOLOGIC HISTORY
Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Brackish Groundwater Bodies as a Result of Geological History and Hydrological Conditions,
W77-11057 1022 2F

GEOLOGIC INVESTIGATIONS
Chemical Weathering of Glauconite,
W77-00289 1001 2K

Geothermal Energy Development,
W77-08661 1018 4B

Geological Survey Research 1976.
W77-10560 1021 2A

GEOLOGIC LINEATIONS
Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

GEOLOGIC MAPPING
Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
* W77-00599 1002 5D

High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

GEOLOGIC TIME
The Evolution of the Australian Deserts,
W77-11112 1022 2A

GEOLOGICAL INVESTIGATIONS
Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

GEOLOGICAL SURVEYS
The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Geological Survey Research 1975.
W77-04974 1010 6B

GEOLOGY
Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Delaware's Changing Shoreline,
W77-02684 1006 2L

Natural and Human Influence on the Hydrological Cycle in South India,
W77-02777 1006 4D

The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Study of the Chemical and Gaseous Composition of Thermal Waters of the Eastern Part of the Pannonian Depression (Considerations sur la Composition Chimique et Gazeuse des eaux Thermales de la Partie Orientale de la Depression Pannonique (Roumanie)),
W77-08688 1018 2K

Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

Water Quality Management--Waste Disposal: A Water Authority Viewpoint,
W77-12428 1024 5E

GEOMETRIC PROGRAMMING
Comment on 'An Optimization Model for Regional Water Quality Management' by John R. McNamara,
W77-05919 1012 5G

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

GEOMETRIC SURFACES
Characteristics of Proportional Weirs,
W77-05355 1011 8B

GEOMORPHOLOGY
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Geomorphological Mapping Applied to Soil Erosion Evaluation,
W77-00369 1001 2J

Adjustment of Stream-Channel Shape to Hydrologic Regime,
W77-00379 1001 8B

Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Geometry of River Meanders,
W77-01340 1003 2E

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

Natural and Human Influence on the Hydrological Cycle in South India,
W77-02777 1006 4D

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Morphometry and Floods in Small Drainage Basins Subject to Diverse Hydrogeomorphic Controls,
W77-04265 1009 2E

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Variation of Link Magnitude with Map Scale,
W77-05338 1011 7C

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Hillslope Form and Climate,
W77-06314 1013 2J

Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Channelization: Environmental, Geomorphic, and Engineering Aspects,
W77-07809 1016 8B

A Snow-Bank Push Mechanism for the Formation of Some 'Annual' Moraine Ridges,
W77-08054 1016 2C

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

The Maximum Extent of Glaciers in Part of West Falkland,
W77-09032 1018 2C

Sediments, Structural Framework, and Evolution of Delaware Bay, A Transgressive Estuarine Delta,
W77-10186 1021 2L

Stream-Channel Response to Floods, With Examples from Central Texas,
W77-12553 1024 2J

GEOPHYSICAL METHODS

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

GEOPHYSICS

Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

GEORGES BANK

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmetrical Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

GEORGIA

Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

GS/MS (Gas Chromatographic/Mass Spectrometric) Analyses of Organic Compounds in Treated Kraft Paper Mill Wastewaters,
W77-00456 1001 5A

State V Ashmore (Fixing Boundaries Adjacent to Tidewaters).
W77-00993 1002 6E

Water Pollution Control Act of 1972, Regional Impacts, Chattahoochee-Flint-Apalachicola, (Parts 1 and 2).
W77-01980 1004 5G

Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix A, Operational and Water Quality Data, 1968.
W77-03307 1007 5G

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W77-03308 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix C, Operational and Water Quality Data, 1970.
W77-03309 1007 5G

Ground-Water Quality Data for Georgia,
W77-03333 1007 7C

Runoff Files for Flood Hydrograph Simulation,
W77-03748 1008 2E

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

Terrestrial Ecology of the Georgia Barrier Islands,
W77-05393 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

The Marshes,
W77-05400 1011 2L

The Open Marine and Estuarine Waters,
W77-05401 1011 2L

The Power Park Concept: Ameliorating Man's Disorder with Nature's Order,
W77-05542 1011 5C

Thermal Effluent in Coastal Rivers: A Contribution to the Location of Power Plants,
W77-05587 1011 5C

United States V Norfolk Dredging Company ($3,000 Penalty for Minor Oil Spill not Excessive).
W77-06058 1012 6E

Georgia Plant is a Peach,
W77-06136 1013 5D

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Availability of Water Supplies in Northwest Georgia,
W77-06336 1013 4A

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Wassaw Island Erosion Study. Part 1: Sedimentary Framework of a Channel Margin Shoal of an Ebb Delta, Wassaw Sound, Georgia,
W77-07324 1015 2L

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

Type Curves for Recovery of a Discharging Well with Storage,
W77-09340 1019 2F

Payne v Whiting (Upper Riparian Owner Responsible for Surface Runoff Damages).
W77-09570 1019 6E

The Georgia Coastal Environment. A Compilation of Resource Materials Covering the Coastal Plain, Estuaries and Offshore Waters.
W77-10025 1020 2L

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Zinc Adsorption Isotherms for Soil Clays With and Without Iron Oxides Removed,
W77-10284 1021 2G

Characteristics of Rainfall Cell Patterns in the Southeast Coastal Plain Areas of the USA, and a Computer Simulation Model of Thunderstorm Rainfall,
W77-10435 1021 2B

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

Summer Zooplankton Distribution in a Georgia Estuary,
W77-10756 1021 5C

Title to Foreshore--Georgia Tidelands Act of 1902 Grants Right to Cultivate and Harvest Shellfish in Foreshore Area, Fee Simple Reserved in the State (Comment on State V Ashmore).
W77-11463 1022 6E

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

GEORGIA BIGHT

Oceanographic Observations in the Georgia Bight: Data Report for R.V. EASTWARD Cruises E-3-74 (24-30 April 1974) and E-12-74 (23-31 July 1974),
W77-04835 1010 2L

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

GEORGIA BIGHT (ATLANTIC OCEAN)

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

GEORGIAN BAY (1968 TO 1974)

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

GEORGIAN BAY (LAKE HURON)

A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

GEOS DATA

The Operational Program of Satellite Snowcover Observation at NOAA/NESS.
W77-10668 1021 4A

GEOSMIN

Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

GEOSTROPHIC CURRENTS

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

GEOSTROPHIC WIND VECTORS

Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

GEOTHERMAL BRINES

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

GEOTHERMAL ENERGY

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

Problems of Managing Geothermal Waters for Irrigation,
W77-12735 1024 3C

GEOTHERMAL FIELDS

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

Heat and Mass Transfer in Models of Undeveloped Geothermal Fields,
W77-02805 1006 4B

GEOTHERMAL GRADIENTS

Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

GEOTHERMAL MONITORING

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

GEOTHERMAL POWERPLANTS

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

GEOTHERMAL PROGRAM (ERDA)

The ERDA Geothermal Program,
W77-08314 1017 4B

GEOTHERMAL RESERVOIRS

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

GEOTHERMAL RESOURCES (USA)

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

GEOTHERMAL STUDIES

Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

Method for Producing Mechanical Energy from Geothermal Brine,
W77-01710 1004 3C

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Heat and Mass Transfer in Models of Undeveloped Geothermal Fields,
W77-02805 1006 4B

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

Use of Geothermal Water for Agriculture,
W77-05309 1011 3C

Power Generation from Hot Brines,
W77-06442 1013 3E

Geothermal Energy Pump and Monitor System,
W77-06443 1013 4B

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

Geothermal Power, The 'Sleeper' in the Energy Race,
W77-07296 1015 3E

Electric Power Generation from Geothermal Hot Water Deposits,
W77-07300 1015 8C

Geothermal Energy: Needed, Effective Heat Transfer Equipment,
W77-07301 1015 8G

Geothermal Systems and Power Development,
W77-07302 1015 4B

Physical Modeling of Combined Forced and Natural Convection in Wet Geothermal Formations,
W77-07303 1015 4B

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

Geothermal Resources, A New Look,
W77-07477 1015 4B

Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

Convective Heat Flow from Hot Springs in the Long Valley Caldera, Mono County, California,
W77-07488 1015 2K

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

Reclamation Research in the Seventies, Second Progress Report,
W77-07600 1015 8A

Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

The ERDA Geothermal Program,
W77-08314 1017 4B

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W77-08351 1017 4B

A Case for Geothermal Energy,
W77-08655 1018 8C

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

Geothermal Energy Development,
W77-08661 1018 4B

Thermal and Chemical Problems of Thermal Waters, Symposium.
W77-08677 1018 2K

Geochemistry of Thermal Waters from Various Geothermal Provinces of India,
W77-08682 1018 2K

Geochemistry and Origin of Thermal Waters in Poland,
W77-08684 1018 2K

Thermal Waters in Taiwan, A Preliminary Study,
W77-08685 1018 4B

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

Some Geochemical Problems in the Utilization of Geothermal Waters,
W77-08687 1018 5B

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

Important Geothermal Sites in Greece, on the Base of Thermomineral Spring Layings, and the Possibilities of Their Exploitation and Utilisation,
W77-08690 1018 4B

Total Energy Use in an Urban-Agricultural Power Plant Complex,
W77-08691 1018 5G

An Energy Accounting Evaluation of Several Alternatives for Hydropower and Geothermal Development,
W77-09057 1018 6B

Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

Chemical and Isotopic Investigations of Groundwater in Potential Geothermal Areas in Hawaii,
W77-09082 1018 2K

Man-Made Geothermal Energy Source Uses Oil-Field Know-How.
W77-10515 1021 8A

Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

Prospects of the Exploitation of Advanced Energy Resources in Water Production in the Middle East,
W77-11116 1022 3A

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Hot Groundwater Systems in Iceland Traced by Deuterium,
W77-11812 1023 2F

Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

Two-Phase, Two-Dimensional simulation of a Geothermal Reservoir,
W77-12674 1024 2F

Recovery of Energy from Fracture-Stimulated Geothermal Reservoirs,
W77-12680 1024 8E

Hot Dry Rock: Widespread But Invisible,
W77-12681 1024 8E

Cyclical Energy Transfer Method and Apparatus,
W77-12697 1024 2F

Problems of Managing Geothermal Waters for Irrigation,
W77-12735 1024 3C

Geothermal Investigations in Idaho: Part 7, Geochemistry and Geologic Setting of the Thermal Waters of the Camas Prairie Area,
W77-12782 1024 4B

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

GEOTHERMAL WATER

Use of Geothermal Water for Agriculture,
W77-05309 1011 3C

GEOTHERMAL WATERS

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

GEOTHERMAL WELLS

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

GEOTHERMALLY HEATED WATER

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

GEOTHERNMAL STUDIES

Study of the Chemical and Gaseous Composition of Thermal Waters of the Eastern Part of the Pannonian Depression (Considerations sur

la Composition Chimique et Gazeuse des eaux Thermales de la Partie Orientale de la Depression Pannonique (Roumanie)),
W77-08688 1018 2K

GERMAN BIGHT (W GERMANY)
The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

GERMAN DEMOCRATIC REPUBLIC
Investigations on the Structure of Frequency Distributions of Floods,
W77-07649 1016 2E

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

GERMANIUM DIODES
A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

GERMANY
Effect of Residues from Effluent Treatment During Solid Board Manufacture (Auswirkung von Rueckstanden aus der Abwasserreinigung bei der Vollpappenerzeugung),
W77-03819 1008 5D

Weed Control and the Environment, (In French),
W77-04041 1008 5B

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

GERMANY (DANUBE RIVER)
Radiological Effects of a Nuclear Power Plant on a River System, as Demonstrated by the Gundremmingen BWR on the Danube,
W77-10415 1021 5C

GERMINATION
Effect of Osmotic Suction on the Germination of Warm Season Grasses, (In Japanese),
W77-00422 1001 2I

Effect of Soil Water Suction on the Germination and Emergence of Warm Season Grasses, (In Japanese),
W77-00423 1001 2I

Influence of Temperature Regimes and Water Stress on the Germination of Three Range Grasses and its Possible Ecological Significance to a Shortgrass Prairie,
W77-04313 1009 3F

Effect of a Seawater Preparation on Germination Rate, Seed Vigor and Formation of the Mass of Plant Seedlings, (In Russian),
W77-05171 1011 3C

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Influence of Seed Pretreatments on Salt Tolerance of Cotton During Germination,
W77-12831 1024 3C

GESAGARD 50
The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

GEZIRA
Irrigation of a Saline-Sodic Site in the Sudan Gezira. I-Water Movement,
W77-12285 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

GHANA
Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

Circulation and Hydrographic Structure Over the Ghana Continental Shelf During the 1974 Upwelling,
W77-06893 1014 2L

GHYBEN-HERZBERG RELATION
Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India,
W77-01626 1004 5B

GHYBEN-HERZBERG RELATIONSHIP
Analytical Solution for Steady Interface Flow in a Coastal Aquifer Involving a Phreatic Surface with Precipitation,
W77-10762 1021 2F

GIANT DUCKWEED
Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

GIBBERELLIC ACID
Production of Gibberellic Acid Using a Dairy Waste as the Basal Medium,
W77-06216 1013 5D

GILA RIVER (ARIZ)
Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

GILL DAMAGE
Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

GILL STRUCTURE
The Effect of Ammonia Exposure on Gill Structure of the Rainbow Trout (Salmo Gairdneri),
W77-04056 1008 5C

GILL TISSUE OXYGEN CONSUMPTION
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

GILLICHTHYS MIRABILIS
Respiratory Responses of Gillichthys Mirabilis to changes in Temperature, Dissolved Oxygen and Salinity,
W77-07401 1015 5C

GILLS
Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

GIRONDE ESTUARY (FRANCE)
Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

GIUSEPPE VENTUROLI
Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

GIZZARD SHAD
Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

GLACIAL AQUIFERS
Hydrogeology of a Drift Filled Bedrock Valley Near Lino Lakes, Anoka County, Minnesota,
W77-00860 1002 2F

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

GLACIAL DRIFT
A Snow-Bank Push Mechanism for the Formation of Some 'Annual' Moraine Ridges,
W77-08054 1016 2C

Pleistocene Glaciation in Ethiopia: New Evidence,
W77-09124 1019 2C

Migration of Landfill Leachate Through Glacial Tills,
W77-10968 1022 5B

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

Attenuation of Waste Water Elutriated Through Glacial Outwash,
W77-12814 1024 5D

GLACIAL SEDIMENTS
Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Glacial Lake Sedimentation, Austerdalsisen, Norway,
W77-04005 1008 2J

Basal Till Fabrics of Modern Alpine Glaciers,
W77-09704 1020 2C

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

GLACIAL SOILS
Basal Till Fabrics of Modern Alpine Glaciers,
W77-09704 1020 2C

GLACIATION
A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Present and Past Glaciation Threshold in the Cascade Range, Washington, U.S.A.: Topographic and Climatic Controls, and Paleoclimatic Implications,
W77-08056 1016 2C

Delineation of the Boundaries of a Buried Pre-Glacial Valley with LANDSAT-1 Data,
W77-08415 1017 2G

The Maximum Extent of Glaciers in Part of West Falkland,
W77-09032 1018 2C

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

Pleistocene Glaciation in Ethiopia: New Evidence,
W77-09124 1019 2C

GLACIER D'ARGENTIERE (FRANCE)
Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

GLACIER MAPPING
Research Projects in Glaciology - 1976.
W77-09220 1019 2C

GLACIER SLIDING
The Effect of Subglacial Chemical Processes on Glacier Sliding,
W77-02459 1005 2C

Glacier Sliding Down an Inclined Wavy Bed,
W77-05424 1011 2C

Glacier Sliding Down an Inclined Wavy Bed with Friction,
W77-05425 1011 2C

GLACIER SURGE
Temperature-Gradient Induced Mass-Instability Theory of Glacier Surge,
W77-05423 1011 2C

GLACIERS
Deposits Formed by Subglacial Precipitation of CAC03,
W77-00658 1002 2K

Anomalous Local Glacier Activity, Baffin Island, Canada: Paleoclimatic Implications,
W77-01333 1003 2C

Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

The Effect of Subglacial Chemical Processes on Glacier Sliding,
W77-02459 1005 2C

The Application of Fracture Mechanics to the Problem of Crevasse Penetration,
W77-02461 1005 2C

Climatic Inferences from Former Glaciers in the South-East Grampian Highlands, Scotland,
W77-02467 1005 2C

Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

Use of Satellite Survey Material in Glaciological Investigations,
W77-03851 1008 2C

Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

An Examination of the Variance Minimization Tendencies of A Supraglacial Stream,
W77-05141 1011 2E

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

Mathematical Models of Ice Shelves,
W77-05422 1011 2C

Temperature-Gradient Induced Mass-Instability Theory of Glacier Surge,
W77-05423 1011 2C

Glacier Sliding Down an Inclined Wavy Bed,
W77-05424 1011 2C

Glacier Sliding Down an Inclined Wavy Bed with Friction,
W77-05425 1011 2C

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

A Study of Glacier-Dammed Lakes Over 75 Years, Brimkjelen, Southern Norway,
W77-05427 1011 2H

Radio-Echo Power Profiling,
W77-05430 1011 2C

Volumetric Change of the Athabasca Glacier over the Last 100 Years,
W77-05792 1012 2C

Rheological Implications of the Internal Structure and Crystal Fabrics of the West Antarctic Ice Sheet as Revealed by Deep Core Drilling at Byrd Station,
W77-05798 1012 2C

Recumbent Folding in the Base of the Barnes Ice Cap, Baffin Island, Northwest Territories, Canada,
W77-05799 1012 2C

Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

Heat Balance in the Ablation Area of the Ampere Glacier (Kerguelen Islands),
W77-06511 1013 2C

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

Penetration Depth of Closely Spaced Water-Free Crevasses,
W77-08052 1016 2C

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

Radio-Echo Sounding of Temperate Glaciers: Ice Properties and Sounder Design Criteria,
W77-08229 1017 2C

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

A New Climatic Model for Glacier Behavior of the Austrian Alps,
W77-08235 1017 2C

Stress in an Elastic Bedrock Hump Due to Glacier Flow,
W77-08236 1017 2C

Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

Relocation of Buried Markers,
W77-08240 1017 2C

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Was There a Late-Wurm Arctic Ice Sheet,
W77-08839 1018 2C

Study of an Ice Core to the Bedrock in the Accumulation Zone of an Alpine Glacier,
W77-08846 1018 2C

The Maximum Extent of Glaciers in Part of West Falkland,
W77-09032 1018 2C

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

Basal Till Fabrics of Modern Alpine Glaciers,
W77-09704 1020 2C

North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

Global Mass and Energy Requirements for Glacial Oscillations and Their Implications for Mean Ocean Temperature Oscillations,
W77-10327 1021 2B

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 2. Place Glacier, British Columbia - Summary of Measurements,
W77-12788 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 3. Ram River Glacier, Alberta - Summary of Measurements,
W77-12789 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965-1974, No. 4. Peyto Glacier, Alberta - Summary of Measurements,
W77-12790 1024 2C

GLACIOLOGY
The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

Glacial Lake Sedimentation, Austerdalsisen, Norway,
W77-04005 1008 2J

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

A Snow-Bank Push Mechanism for the Formation of Some 'Annual' Moraine Ridges,
W77-08054 1016 2C

Present and Past Glaciation Threshold in the Cascade Range, Washington, U.S.A.: Topographic and Climatic Controls, and Paleoclimatic Implications,
W77-08056 1016 2C

Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 2. Place Glacier, British Columbia - Summary of Measurements,
W77-12788 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 3. Ram River Glacier, Alberta - Summary of Measurements,
W77-12789 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965-1974, No. 4. Peyto Glacier, Alberta - Summary of Measurements,
W77-12790 1024 2C

GLADSTONE (MO)
Contract Services Stretch Sewer Maintenance Budget,
W77-06994 1014 8G

GLASS INDUSTRY
Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

GLASS REINFORCED PLASTICS MOLDING
Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

GLAUCONITE
Chemical Weathering of Glauconite,
W77-00289 1001 2K

GLEN CANYON DAM
Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

GLENDO RESERVOIR
Glendo Reservoir; General Provisions.
W77-06073 1012 6E

GLENWOOD SPRINGS (COLO)
An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

GLEY SOILS
Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

GLGAL GROWTH POTENTIAL
Algal Growth Potential of Waste Water Effluents in Hawaiian Receiving Waters,
W77-05852 1012 5C

GLOBAL WATER LAW SYSTEMS
Proceedings of the International Conference on Global Water Law Systems, September 1-9, 1975, Valencia, Spain.
W77-08966 1018 6E

GLOSSARIES
John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

Glossary of Water Resource Terms,
W77-07613 1016 10C

GLUCOSE
Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

Concentration of Organic Substances in Water as a Factor Controlling the Occurrence of Some Ciliate Species,
W77-03839 1008 5C

Effect of Various Factors on Glucose Decomposition Rate in Natural Waters, (In Russian),
W77-03862 1008 5C

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

GLUCOSE METABOLISM
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

GLUCOSE OXIDATION
Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

GLUSZYCA (POLAND)
Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

GLUTAMIC ACID
Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

GLYCOGEN
Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

GLYCOSIDES (TRITERPENE)
Comparative Study of the Antifungal Activity of Triterpene Glycosides of Pacific Holothurians, (In Russian),
W77-09938 1020 2I

GLYCYRRHIZA-GLABRA
Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

GNADENSEE
Experimental Studies on Material Transactions Between Mud and Water of the Gnadensee,
W77-03370 1007 5C

GNATHONEMUS
The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

GOAL PROGRAMMING
Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

GOCZALKOWICE RESERVOIR (POLAND)
Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

GOLAR GS500 INCINERATOR
Golar Rubbish, Oil Sludge and Sewage Incinerator.
W77-07911 1016 5E

GOLD
Palo Alto Sees Golden Glint in Sludge.
W77-11703 1023 5D

GOLDEN SHINER
Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

GOLDEN SHINERS
Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

GOLDFISH
Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Studies on the Distribution of 14 C Labelled PCB in the Body. II. the Distribution in Gold Fish (Carrasius Auratus), (In Japanese),
W77-05488 1011 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Activity of Phytoplankton Excreted by Fish,
W77-10642 1021 5C

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

The Effect of Exposure to a Subacute Concentration of Parathion on the General Locomotor Behavior of the Goldfish,
W77-12648 1024 5C

GOLF COURSES
An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

GONAD TUMORS
The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

GONADAL TUMOURS
The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

GONADOTROPINS
Recent Progress on the Control of Ovarian Development and Induced Spawning of the Grey Mullet (Mugil Cephalus L.),
W77-02882 1006 5C

GONOSTOMATIDS
The Diverse Patterns of Metamorphosis in Gonostomatid Fishes-An Aid to Classification,
W77-04534 1009 2I

GONYAULAX CATENELLA
Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

GONYAULAX EXCAVATA (BRAARUD) BALECH
Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

GOODS AND SERVICES
The Values of Goods and Services--Implications for a Flexible National Water Policy,
W77-10837 1022 6B

GOOSE BARNACLES
Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

GOOSE LAKE DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

GOOSE LAKE INTERSTATE COMPACT
Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

GORKI LAKES REGION (USSR)
Planktonic Infusoria in Two Lakes of the Gorki Oblast, (In Russian),
W77-07234 1015 5C

GORKY HYDROELECTRIC POWERPLANT (USSR)
Destruction of Vegetation on Dams of the Gorky Hydroelectric Power Plant with Herbicides,
W77-10059 1020 4A

GOVERNMENT FINANCE
Capital Markets and Water Quality Needs: 1975-1985.
W77-01967 1004 5G

The Efficiency of Taxes and Subsidies in Reducing Emission by a Risk-Averse Firm,
W77-04564 1009 5G

GOVERNMENT POLICIES
Water Resources Planning and Management Goals,
W77-07523 1015 6B

GOVERNMENT SUPPORTS
Federal Water Resources Research Program for 1973 and 1974, Committee on Water Resources Research of the Federal Council for Science and Technology, (1976).
W77-00531 1002 9D

Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

The ERDA Geothermal Program,
W77-08314 1017 4B

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

GOVERNMENTAL INTERRELATIONS
Regional Wastewater Solids Management Program Los Angeles-Orange County Metropolitan Area,
W77-00011 1001 5E

The International Law of the Sea: A Case for a Customary Approach,
W77-00956 1002 6E

Flood Control by State in Cooperation With Federal Agencies.
W77-01007 1002 6E

Hurdles in the Path of Coastal Plan Implementation,
W77-03582 1007 6B

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

The Rocky Road to Water for Energy,
W77-04904 1010 3E

Implementing the Coastal Plan: A New Test for the Concept of State Control for Areas of Critical State Concern,
W77-04922 1010 6E

Coastal Zone Management and Intergovernmental Coordination,
W77-05059 1010 6E

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

States Need Freedom to Innovate (Comment on PL 92-500).
W77-08119 1017 6E

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

Sovereignty and the Control of Water Pollution,
W77-08366 1017 5G

Ticket to Thermidor: A Commentary on the Proposed California Coastal Plan,
W77-08379 1017 6B

City of York V. Pennsylvania Department of Environmental Resources (Delegation of Authority Under the Pennsylvania Waste Management Act).
W77-08403 1017 6E

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

The Colorado River: International Aspects,
W77-11172 1022 6E

GOVERNMENTS
Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

Federal and State Controls Over Land/Water Development in Navigable and Non-Navigable Waters,
W77-10470 1021 6E

GOVERNOR ALINEMENT TESTING
Electronic Isolation Simulator for Hydraulic Turbine Governor Alinement,
W77-07804 1016 8C

GOVERNORS
Governor for Rotary Sprinkler,
W77-01755 1004 3F

Electronic Isolation Simulator for Hydraulic Turbine Governor Alinement,
W77-07804 1016 8C

GRABEN
Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

GRADATION
Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

GRADIENT DEVICES
Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

GRADIENT ESTIMATES
A Search Technique for Formulating Improved Water Resources Configurations, Part II,
W77-00534 1002 6A

GRADIENT TROUGH
Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

GRADIENTS (STREAM)
Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

GRADIENTS (STREAMS)
Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

GRADUALLY VARIED FLOW
Exact Solution of Gradually Varied Flow,
W77-03085 1007 8B

Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

GRADUATE EDUCATION
Graduate Education Opportunities in Water Resources in the State of Minnesota.
W77-00156 1001 9A

GRADUATE STUDY
Education and Traning in Water Resources Planning,
W77-01344 1003 6B

GRAHAM AND PINAL COUNTIES (ARIZ)
Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

GRAHAM'S BIOTIC INDEX
Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

GRAIN MILLING
Water Pollution Control Act of 1972, Economic Impacts, Grain Milling.
W77-01954 1004 5G

GRAIN SORGHUM
Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2F

Isolation and Characterization of Drought Tolerance in a Grain Sorghum (Sorghum Bicolor (L) Moench) Randommating Population,
W77-03623 1008 2I

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

Grain Sorghum Response to Inundation at Three Growth Stages,
W77-11408 1022 3F

Reducing Tailwater Runoff for Efficient Irrigation Water Use,
W77-11412 1022 3F

Nutrient Uptake by Corn and Grain Sorghum Silage as Affected by Soil Type, Planting Date, and Moisture Regime,
W77-11948 1023 3F

Effect of Increasing Foliage and Soil Reflectivity on the Yield and Water Use Efficiency of Grain Sorghum,
W77-11951 1023 3F

Stomatal Response to Leaf Water Potential as Affected by Preconditioning Water Stress in the Field,
W77-11959 1023 3F

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

GRAINS (FOOD)
Water Pollution Control Act of 1972, Economic Impacts, Grain Milling.
W77-01954 1004 5G

GRANADA (SPAIN)
Planktonic Crustacea of the Reservoir of Cubillas Near Granada, (In Spanish),
W77-00683 1002 2H

GRAND CANYON
On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

GRAND CANYON (ARIZ)
Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

GRAND CANYON DISTRICT (ARIZ)
Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

GRAND CAYMAN ISLAND
A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

GRAND COULEE DAM
Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Nitrogen Saturation Levels on the Mid-Columbia River, 1965-1971,
W77-04442 1009 5C

GRAND COULEE DAM

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

GRAND LAKE (OHIO)

A Preliminary Study of the Taste and Odor Problems in Grand Lake, Ohio and the Wabash Rivers, Indiana,
W77-03384 1007 5C

GRAND STAND (SC)

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

GRAND TETON NATIONAL PARK (WYO)

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

GRANDE RONDE DRAINAGE BASIN (OR)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

GRANITES

Hydrogeochemistry of the Genoa River Basin, New South Wales - Victoria (Australia),
W77-00452 1001 2K

GRANITIC TERRANES

Geotechnical Management of Forest Lands in Granitic Terrane,
W77-00800 1002 4C

GRANTS

Grant Aid for Plant Operations: An Evaluation,
W77-03483 1007 5G

Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

An Evaluation of Title III Water Resources Planning Grants in States,
W77-04902 1010 6E

Developments in Water Quality and Land Use Planning: Problems in the Application of the Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

Looking Ahead (Federal Water Pollution Control Act of 1972).
W77-07235 1015 6E

Consultant Looks at 208 Program,
W77-11166 1022 6E

GRANTS MINERAL BELT

Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

GRANTS MINERAL BELT (N MEX)

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

GRANULAR BED FILTRATION

Filtration with Granular Beds,
W77-06123 1013 5D

GRAPEFRUIT

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

GRAPHICAL ANALYSIS

Soil and Water Loss from Impoundment Terrace Systems,
W77-00796 1002 4D

Solubility of Oxygen in Water, Saturation Values for Fresh Water and Mixtures of Fresh and Sea Water,
W77-04864 1010 5B

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomer ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsuite),
W77-05320 1011 2E

Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Model of the Disturbances in Hydrological Sequences Based on the Method of Demodulation,
W77-11602 1023 2E

GRAPHICAL DISPLAYS

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

A Data Integration Study of Lake Ontario for the Episode July 19 - August 2, 1972. Part II,
W77-05126 1011 2H

GRAPHICAL METHODS

New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Graphical Interpretation of Water Quality Data,
W77-02592 1006 5A

GRASS FILTRATION SYSTEM

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

GRASS FILTRATION SYSTEMS

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

GRASS SHRIMP

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

GRASSED WATERWAYS

Submerged Burlap Strips Aided Rehabilitation of Disturbed Semiarid Sites in Colorado and New Mexico,
W77-00727 1002 4D

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

Performance Characteristics of a Grassed-Waterway Transition,
W77-08849 1018 4D

Reduction of 2, 4-D Load in Surface Runoff Down a Grassed Waterway,
W77-10323 1021 5G

GRASSES

Effect of Osmotic Suction on the Germination of Warm Season Grasses, (In Japanese),
W77-00422 1001 2I

Effect of Soil Water Suction on the Germination and Emergence of Warm Season Grasses, (In Japanese),
W77-00423 1001 2I

Water Balance of Stipa Pennata Spp. Eriocaulis, Stipa Capillata and Festuca Vallesiace in the Steppe Region of the Upper Vinschagau, (In Germany9,
W77-00505 1001 2D

Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Nitrogen Fixation by Algae in Fescuegrass Soil Crusts,
W77-02274 1005 2G

Seasonal Water Use of Irrigated Pasture Grasses Under Permanently-Set Irrigation as Related to Climatic Factors,
W77-02834 1006 3F

Computation of the Potential Evapotranspiration and Their Comparison with Values of the Actual Evapotranspiration of Lysimeters, (In German),
W77-03118 1007 2D

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

Manning's Roughness for Artificial Grasses,
W77-04255 1009 4A

Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

The Marshes,
W77-05400 1011 2L

The Dune Book. How to Plant Grasses for Dune Stabilization,
W77-07326 1015 2J

Study on the Herbicidal Properties of Benthiocarb; Factors Affecting Herbicidal Activity and Its Behavior in Soil, (In Japanese),
W77-07387 1015 5B

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

Growth of Tropical and Temperate Grasses at Palmerston North I. Warm-Season Yields With and Without Irrigation,
W77-08457 1017 3F

Potential of New Summer Grasses in Northland: I. Warm-Season Yields Under Dryland and Irrigation,
W77-08458 1017 3F

Late Summer Irrigation and Establishment of Winter Annual Legumes in a Mediterranean-Type Climate,
W77-12532 1024 3F

Determination of Optimal Soil Moisture Conditions for Grass Stands in the Dry Valleys of the Moscow Oblast (USSR), (In Russian),
W77-12995 1024 2G

GRASSLAND
An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

GRASSLAND RENOVATION
Grassland Renovation - Conserves Soil and Energy and Increases Returns from Grass Fields,
W77-12622 1024 4D

GRASSLANDS
Water Balance of Stipa Pennata Spp. Eriocaulis, Stipa Capillata and Festuca Vallesiace in the Steppe Region of the Upper Vinschagau, (In Germany9,
W77-00505 1001 2D

Light-Chestnut Long-Irrigated Soil of the Sharur Plain, (In Russian),
W77-00510 1001 2G

Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

A Study of Habitat Water Regime of Inundated Meadows Near Osijek, (In Croatian),
W77-04582 1009 2G

Calculating Evaporation from Native Grassland Watersheds,
W77-05442 1011 2D

The American Experience,
W77-05941 1012 6G

Usefulness of LANDSAT Data for Monitoring Plant Development and Range Conditions in California's Annual Grassland,
W77-08411 1017 4A

Grassland Renovation - Conserves Soil and Energy and Increases Returns from Grass Fields,
W77-12622 1024 4D

Simulation of Phosphorus Cycling in Semiarid Grasslands,
W77-12832 1024 2G

GRAVEL BAILER
Bailing,
W77-04288 1009 8C

GRAVEL PACKING
Resin-Coated Gravel is Used to Help Control Sand,
W77-08316 1017 8G

GRAVEL PITS
The Significance of Gravel Pits as a Biological Refuge, (In German),
W77-05205 1011 2H

GRAVELS
Marine Sand and Gravel Mining,
W77-00195 1001 3E

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

Resin-Coated Gravel is Used to Help Control Sand,
W77-08316 1017 8G

GRAVITATIONAL CIRCULATION
Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

GRAVITATIONAL OSCILLATIONS
Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

GRAVITATIONAL WATER
Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

GRAVITY
Comparison of Drainage Equations for the Gravity Drainage of Stratified Profiles,
W77-04248 1009 2G

Rising to Sewage Problems.
W77-04704 1010 5D

On Solving the Infiltration Equation--A Comparison of Perturbation and Iterative Techniques,
W77-05348 1011 2G

GRAVITY CLARIFIERS
Gravity Clarifier,
W77-00690 1002 5D

GRAVITY DRAINAGE
Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

A Multi-Layer Model for Gravity Drainage of Unsaturated Soil,
W77-12093 1023 2F

GRAVITY FILTERS
Gravity Filtering Equipment,
W77-04967 1010 5F

GRAVITY IRRIGATION SYSTEMS
Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

GRAVITY-PRESSURE DEWATERING
Refinery Effluent Improved by Gravity-Pressure Dewatering,
W77-09420 1019 5D

GRAVITY THICKENING
Continuous Thickening of Biological Sludges, and the Influence of Stability,
W77-07923 1016 5D

Gravity Thickening of Water-Treatment-Plant Sludges,
W77-09912 1020 5D

GRAVITY WAVES
Rederivation of the Saturation Range in the Frequency Spectrum of Wind-Generated Gravity Waves,
W77-05802 1012 2L

GRAY-BROWN PODZOLIC SOILS
The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

GRAY SQUIRREL
Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

GRAYS HARBOR ESTUARY (WASH)
Grays Harbor Estuary, Washington, Report 6, 45-FT MSL (40-FT MLLW) Navigation Channel Improvement Studies; Hydraulic Model Investigation,
W77-02963 1006 8B

GRAYS HARBOR (WASH)
A Multi-Parameter Estuary Model,
W77-09165 1019 5B

GRAZING
Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

Grazing and Debris Burning on Pinyon-Juniper sites--Some Chemical Water Quality Implications,
W77-04392 1009 5B

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Grazing Systems and Watershed Management: A Look at the Record,
W77-05936 1012 4D

The American Experience,
W77-05941 1012 6G

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Grazing Effects on Nannoplankton in Gatun Lake, Panama,
W77-07507 1015 5C

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

GREASE
Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

GREAT BASIN
Summary Appraisals of the Nation's Ground-Water Resources--Great Basin Region,
W77-11873 1023 4B

An Empirical Method for Simulation of Water Tables by Digital Computers,
W77-12546 1024 2F

GREAT BASIN (NEV)
Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

GREAT BAY ESTUARY (NH)
Hydrodynamic Model of the Great Bay Estuarine System,
W77-02667 1006 2L

GREAT BEAR LAKE (NWT)
Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

GREAT BEND PRAIRIE (KANS)
Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

GREAT BLUE HERON
DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

GREAT BRITAIN
Flood Studies Report.
W77-04244 1009 2A

Enforcement of Oil Pollution Legislation,
W77-06543 1013 5G

Trends in Small Sewage Treatment Plants,
W77-08569 1017 5D

A Case for Geothermal Energy,
W77-08655 1018 8C

GREAT DISMAL SWAMP (NC AND VA)
The Great Dismal Swamp: Management of a Hydrologic Resource with the Aid of Remote Sensing,
W77-10007 1020 2H

GREAT LAKE OF LAFFREY (FRANCE)
Physical-Chemical and Planktonological Quantitative Studies of the Great Lake of Laffrey (Years 1970, 1971 and 1973), (In French),
W77-01019 1002 5C

GREAT LAKES
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

Long-Range Forecasting of Maximum Ice Extent on the Great Lakes,
W77-00276 1001 2C

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Cladophora in the Great Lakes,
W77-00928 1002 5C

IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

Workshop on Toxicity to Biota of Metal Forms in Natural Water.
W77-01295 1003 5C

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Lake Superior Bathythermograph Data,
W77-01912 1004 2H

Large-Scale Current Measurements in Lake Huron,
W77-02473 1005 2H

An Evaluation of Parameters for the Theoretical Distribution of Periods and Amplitudes of Sea Waves,
W77-02479 1005 2H

An Analysis of Great Lakes Ice Cover from Satellite Imagery,
W77-02676 1006 2C

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

Circulation, Diffusion and Frontal Dynamics in the Coastal Zone,
W77-02794 1006 2H

A Simple Dispersion Model of the Mean Concentration Field in the Western and Central Basins of Lake Erie,
W77-02795 1006 2H

Reconstruction of Some of the Early Storm Surges on the Great Lakes,
W77-02797 1006 2H

Estimation of Winds Over the Great Lakes,
W77-02944 1006 2H

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Great Lakes Compact Commission.
W77-03513 1007 6E

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

Heavy Metal Concentrations and Distributions in River Mouth Sediments Around the Great Lakes,
W77-03650 1008 5B

Great Lakes Nutrient Assessment,
W77-04163 1009 5C

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Shoreline Property and Recreation,
W77-04190 1009 2H

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Hydrology,
W77-04191 1009 2H

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

The Behavior of Plutonium in Aquatic Ecosystems: A Summary of Studies on the Great Lakes,
W77-04519 1009 5C

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

An Operational All-Weather Great Lakes Ice Information System,
W77-06527 1013 2C

Great Lakes All-Weather Ice Information System,
W77-06528 1013 2C

The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Transports in Lake Superior,
W77-07176 1015 5B

Frazil--The Invisible Strangler,
W77-07177 1015 2C

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

Evaluation of Potential Use of Vegetation for Erosion Abatement Along the Great Lakes Shoreline,
W77-07788 1016 4D

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Estimation of Winds Over the Great Lakes,
W77-09022 1018 2H

A Review of EPA's Great Lakes Modeling Program,
W77-09157 1019 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 1, Abstracts.
W77-09344 1019 10C

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 2, Indexes.
W77-09345 1019 10C

Earth Resources--A Continuing Bibliography with Indexes.
W77-09346 1019 10C

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

Seasonal Variations in Great Lakes Design Wave Heights: Lake Erie,
W77-09986 1020 8B

Biological, Chemical and Physical Relationships in the Straits of Mackinac,
W77-10058 1020 5C

Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

Characteristics of Internal Oscillations in Lake Ontario,
W77-10331 1021 2H

Generation of Hydrologic and Water Resources Samples,
W77-10441 1021 2A

Great Lakes Water Temperatures, 1966-1975,
W77-10510 1021 2H

Great Lakes Eutrophication: The Effect of Point Source Control of Total Phosphorus,
W77-10597 1021 5C

Appendix V. Shoreline Damage Survey: An Appraisal with Recommendations,
W77-10904 1022 2H

Engineering-Economic Analysis of Shore Protection Systems: A Benefit/Cost Model,
W77-10905 1022 2H

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

On the Use of Microwave Radiation for Great Lakes Ice Surveillance,
W77-11052 1022 2C

Great Lakes Ice Cover, Winter 1975-76,
W77-11054 1022 2C

Survey of Fish Impingement at Power Plants in the United States, Volume I. The Great Lakes,
W77-11125 1022 8I

Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

A Three-Dimensional Model of Lake Ontario's Summer Circulation I. Comparison with Observations,
W77-11808 1023 2H

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

A Primer of Basic Concepts of Lakeshore Processes,
W77-12545 1024 2J

Design Wave Information for the Great Lakes; Report 2, Lake Ontario,
W77-12569 1024 8B

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

GREAT LAKES BASIN
Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

GREAT LAKES BASIN COMMISSION
Evolution and Objectives of River Basin Commissions in the United States,
W77-07249 1015 6E

GREAT LAKES BASIN COMPACT
Great Lakes Compact Commission.
W77-03513 1007 6E

GREAT LAKES COMPACT COMMISSION
Great Lakes Compact Commission.
W77-03513 1007 6E

GREAT LAKES HARBORS
Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

GREAT LAKES REGION
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

A Plan for Michigan's Shorelands.
W77-00958 1002 6B

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

The Flood Plain Zoning Experience in the Great Lake States,
W77-04364 1009 6E

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

GREAT LAKES WATER QUALITY BOARD

GREAT LAKES WATER QUALITY BOARD
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W77-03383 1007 5G

GREAT METEOR SEAMOUNT
Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

GREAT PLAINS
Availability of Water for Coal Conversion,
W77-01345 1003 3E

Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

Confined Animals and Public Environment,
W77-04617 1010 5B

No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

Monitoring Vegetation Conditions from LANDSAT for Use in Range Management,
W77-08412 1017 4A

Aerosol over the High Plains of the United States,
W77-09225 1019 5A

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

The Scales of Hail,
W77-11598 1023 2B

Northern Great Plains Resources Program: Water Quality Subgroup Report,
W77-12588 1024 5C

GREAT SALT LAKE
Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Content of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Great Salt Lake Management and Development.
W77-08407 1017 6E

Model for Evaluating the Effects of Dikes on the Water and Salt Balance of Great Salt Lake, Utah,
W77-10563 1021 2H

Second Report of the Special Master in the Case of Utah v United States (Concerning Boundaries of Inland Bodies of Water and the Nature of Meander Lines).
W77-12895 1024 6E

GREAT SALT LAKE CAUSEWAY CULVERTS (UTAH)
Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

GREAT SOUTH BAY (NY)
An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

GREATER ALMATINKA RIVER (USSR)
Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

GREATER SCAUP DUCK
Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

GREECE
Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

Distribution and Seasonal Variability of Micronutrients in Certain Salt Affected Soils of Northern Greece,
W77-12756 1024 5B

GREECE (NEOVOLCANIC REGIONS)
Important Geothermal Sites in Greece, on the Base of Thermomineral Spring Layings, and the Possibilities of Their Exploitation and Utilisation,
W77-08690 1018 4B

GREEN-AMPT ANALYSIS
Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

GREEN-AMPT EQUATION
Use of the Green-Ampt Equation with Variable Conductivity,
W77-09430 1019 2G

Solutions to Green-Ampt Infiltration Equation,
W77-12578 1024 2G

GREEN BAY (LAKE MICHIGAN)
Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

GREEN BAY (WIS)
Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

GREEN FISH
Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

GREEN LAKE (ONT)
Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

GREEN LAKE (WYO)
Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

GREEN RIVER BASIN (KY)
Operating Policy Adaptations for a Reservoir Systems, (Phase I),
W77-07603 1016 4A

Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

GREEN RIVER (MASS)
Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

GREEN RIVER (UTAH-COLO)
A Mathematical Model for Predicting River Temperatures-Application to the Green River Below Flaming Gorge Dam,
W77-01684 1004 4A

GREEN SUNFISH
Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

GREEN SWAMP (FLA)
An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

GREENHOUSES
Desert Food Factories,
W77-02176 1005 3C

Controlled-Environment Agriculture and the Developing Countries,
W77-11640 1023 6B

GREENLAND
Seasonal Variations of Chemical Constituents in Annual Layers of Greenland Deep Ice Deposits,
W77-03773 1008 2C

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

GREENLAND SEA
Numerical Simulation of the Arctic Ocean Circulation,
W77-00129 1001 2L

GREIFENSEE (SWITZERLAND)
Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

GREY SEALS
Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals

(Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

GRID LENGTH
The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

GRID SIZE EFFECTS
Soil Water Modeling II: On Sensitivity to Finite Difference Grid Spacing,
W77-11795 1023 2G

GROSSER PLOENER SEE (GERMANY)
Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

GROUND WATER
A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

GROUND WATER MANAGEMENT ACT
Water Law - Well Permits - Unappropriated Water and Maximum Utilization, Hall v. Kuiper, 510 P.2d 329 (Colo. 1973),
W77-09543 1019 6D

GROUND WATER MONITORING
Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

GROUND WATER PUMPING INDUCED LAND SUBSIDENCE
Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

GROUNDING
Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

GROUNDWATER
Impact of Land Disposal of Sludges on Groundwater,
W77-00031 1001 5B

Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Sodium Carbonate in Ground Waters of the Turkmen SSR, (In Russian),
W77-00384 1001 3C

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

Water Resources Data for Alabama, Water Year 1975.
W77-00435 1001 7C

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Hygienic Problems of the Formation and Prediction of Changes of Groundwater Quality in the Case of Recharging from Surface Water Sources, (In Russian),
W77-00528 1002 5B

Water Zoning - Tool for Ground-Water Basin Managers,
W77-00552 1002 6F

Physical Fundamentals of the Mixing of Solutions of Pollutants and Sewage in Porous Media,
W77-00554 1002 5B

Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

Model Analysis of Effects on Water Levels at Indiana Dunes National Lakeshore Caused by Construction Dewatering,
W77-00863 1002 4B

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

Linear Models for Groundwater Management,
W77-01180 1003 4B

The Ground Water Legal Regime as Instrument of Policy Objectives and Management Requirements,
W77-01181 1003 6E

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-01366 1003 4B

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

Estimated Groundwater Yield Following Strip Cutting in Pine Plantations,
W77-01426 1003 4C

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India,
W77-01626 1004 5B

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

Artesian Aquifers,
W77-01761 1004 4B

Ground Water Flow in Unconsolidated Formations,
W77-01763 1004 4B

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

A Model Study of the Effects of Artificial Recharge,
W77-01883 1004 4B

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

Differential-Head--Lake-Level Relationships in the Middle-Gulf Area, Florida,
W77-01922 1004 4B

Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

Evidence of Salt-Water Intrusion in Southeastern Long Island,
W77-01924 1004 5B

An Analysis of Instabilities Caused by Salinity Gradients in Groundwater,
W77-01931 1004 5B

A Drawdown Prediction Model Based on Regression Analysis,
W77-02015 1004 4B

Bicarbonate Content of Groundwater in Carbonate Rock in Eastern North America,
W77-02020 1004 2K

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

Numerical Solution of Boussinesq Equation,
W77-02143 1005 2F

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

Hydrology of Lake County, Florida,
W77-02316 1005 4B

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

Groundwater Pollution by Wood Waste Disposal,
W77-02591 1006 5B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Geographic Areas of Particular Concern.
W77-02687 1006 2L

Effect of Groundwater Moisture on the Formation of the Sandy Soils of the Ket-Tym Region of the Ob River, (In Russian),
W77-02885 1006 2G

Index to Water Resources Data for Illinois,
W77-02990 1006 7C

A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

The Transport of Pollutants in Ground Water, (In German),
W77-03131 1007 5B

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

A Computer Program for Estimating Costs of Owning and Operating an Irrigation Well Under Conditions of Declining Water Levels,
W77-03211 1007 6C

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

Low Flow Modeling in Small Steep Watersheds,
W77-03316 1007 4D

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

Groundwater Quality Adjacent to a Septic Tank System,
W77-03456 1007 5D

Identification of Gasoline Contamination of Groundwater by Gas Chromatography,
W77-03796 1008 5A

Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

Water Resources Data for Nebraska, Water Year 1975,
W77-03885 1008 7C

Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Earthquake-Related Change of the Hydrogen Ion Concentration (pH) in Ground Waters,
W77-03990 1008 2K

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Monitoring Groundwater Quality: Economic Framework and Principles,
W77-04113 1009 5A

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

A Note on an in Situ Groundwater Sampling Procedure,
W77-04127 1009 5A

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas Which May Contribute to Drinking Water Supplies. A Preliminary Review,
W77-04128 1009 5B

Evaluating Well Construction,
W77-04131 1009 8B

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

Water Resources Data for Pennsylvania, Water Year 1975--Volume 2. Susquehanna and Potomac River Basins.
W77-04228 1009 7C

Terraces and Shorelines of Florida,
W77-04229 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

Confined Animals and Public Environment,
W77-04617 1010 5B

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Groundwater Pollution From a Septic Tile Field,
W77-04728 1010 5B

Ground-Water Pollution Aspects of Land Disposal of Sewage from Remote Recreation Areas,
W77-04756 1010 5B

Prediction of Future Nitrate Concentrations in Ground Water,
W77-04757 1010 5B

The Contribution of Fertilizer to the Ground Water of Long Island,
W77-04758 1010 5B

Design and Optimization of Ground-Water Monitoring Networks for Pollution Studies,
W77-04759 1010 5A

Monitoring Cyclic Fluctuations in Ground-Water Quality,
W77-04760 1010 5B

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

Organic Leachate Threatens Groundwater Quality,
W77-04870 1010 5B

Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

A Numerical Study of Confined-Unconfined Aquifers Including Effects of Delayed Yield and Leakage,
W77-04882 1010 2F

Effect of the Groundwater Level and Soil Moisture Content on Photophosphorylation of Barley, Wheat and Oat Chloroplasts, (In Belorussian),
W77-04884 1010 2I

Quantifying the Natural Flushout of Alluvial Aquifers,
W77-04889 1010 5B

Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

Water Use in Mississippi, 1975,
W77-04972 1010 7C

Water Resources Data for Colorado, Water Year 1975--Volume 1. Missouri River Basin, Arkansas River Basin, Rio Grande Basin.
W77-04975 1010 7C

Water Resources Data for California, 1974: Part 2. Water Quality Records.
W77-04976 1010 7C

Water Levels in Artesian and Nonartesian Aquifers of Florida, 1973-74,
W77-04985 1010 4B

Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Ground-Water Models,
W77-05012 1010 2F

Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents,
W77-05262 1011 2K

Water Resources Data for California, Water Year 1975--Volume 4. Northern Central Valley Basins and the Great Basin From Honey Lake Basin to Oregon State Line,
W77-05263 1011 7C

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

Ground-Water Levels in Observation Wells in Oklahoma, 1971-74,
W77-05275 1011 7C

Response of Ground-Water Levels to Flood Control Operations in Three Basins, Southeastern Florida,
W77-05278 1011 4B

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

Ground-Water Pollution Problems in the Northwestern United States,
W77-05307 1011 5B

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Use of Water in Arkansas, 1975,
W77-05761 1012 6D

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

Chemical Activation of Groundwaters of the Ingul-Visun' Interfluve within the Yavkinsk Irrigation System, (In Russian),
W77-05952 1012 2G

Soils of the Tedzen-Hurghab Interfluvial Area, (In Russian),
W77-05960 1012 2G

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

Pennsylvania Uses Liners to Control Ground Water Contamination from Landfill Operations,
W77-06172 1013 5G

Septic Tank Pollution Cut.
W77-06174 1013 5D

Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

Combined Use of Ground and Surface Waters for Irrigation,
W77-06309 1013 3F

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

An Integrated Approach to Delineating Contaminated Ground Water,
W77-06311 1013 5B

Ground-Water Turbidity Resulting from Artificial Recharge,
W77-06312 1013 5B

Nitrate and Chloride in Ground Water Under Irrigated Agriculture in Central Wisconsin,
W77-06313 1013 5B

Water Resources Data for Louisiana, Water Year 1976--Volume 1. Central and Northern Louisiana.
W77-06326 1013 7C

Water Resources Data for Louisiana, Water Year 1976--Volume 2. Southern Louisiana.
W77-06327 1013 7C

The Algebraic Technological Function - A Mechanism for Integrating Physical and Economic Factors in Groundwater Management,
W77-06339 1013 4B

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

Pesticides Data-Collection Activities of the U.S. Geological Survey in Texas,
W77-06344 1013 5B

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Chemical Dynamics of a Confined Limestone Aquifer,
W77-06399 1013 2F

Role of Ground-Water in the Formation of the Runoff and Water Chemistry of Rivers in the Lower Tunguska Basin,
W77-06506 1013 2F

Tributary Ground Water and Change-of-Place-of-Use Rules in Designated Ground Water Basins in Colorado.
W77-06545 1013 4B

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

Hybrid Computer Analysis of a Combined Surface Water--Groundwater System,
W77-06729 1014 4B

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

Preliminary Bibliography on Groundwater in Developing Countries,
W77-06852 1014 2F

Nitrate in Ground Water and Its Relation to Fertilization, (In German),
W77-07112 1015 5B

Nitrogen Contamination Sources in Shallow Ground Water, Las Vegas Area, Nevada,
W77-07141 1015 5B

Non-Equilibrium Thermodynamics of Groundwater Flow Systems: Symmetry Properties of Phenomenological Coefficients and Considerations of Hydrodynamic Dispersion,
W77-07143 1015 2F

Consumptive Use of Ground Water,
W77-07257 1015 6E

Effects of Man's Activities on Groundwater Quality,
W77-07359 1015 5B

Anthropogenically Reduced Groundwaters,
W77-07360 1015 5B

Ground-Water Levels in Massachusetts, 1936-74,
W77-07485 1015 4B

Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Saturated and Unsaturated Flow to Parallel Drains,
W77-07552 1015 4A

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

Energy Development and Its Effect on Ground Water,
W77-07691 1016 5B

Research Foundation Utilizes Ground Water Heat Pumps,
W77-07693 1016 8C

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Gravity-Measuring Device for Water and Mineral Detection,
W77-08010 1016 7B

Urban Land Use: Remote Sensing of Groundbasin Permeability,
W77-08065 1016 7B

Water Resources Data for Indiana, Water Year 1975,
W77-08162 1017 7C

Selected Water-Level Records for Western Oklahoma, 1950-1975,
W77-08163 1017 7C

Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

U S Geological Survey, Water Resources Division, Radiocarbon Measurements I,
W77-08169 1017 4B

Water Resources Data for Illinois, Water Year 1975,
W77-08184 1017 7C

Water Resources Data for Nevada, Water Year 1975,
W77-08185 1017 7C

Effect of Dip on the Subsurface Storage or Disposal of Fluid in Saline Aquifers,
W77-08204 1017 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-08205 1017 4B

Applications of Surface Resistivity Methods,
W77-08244 1017 2F

Sanitary and Hygienic Characteristics of Subsurface Waters of the Tselinograd and Turgai Oblasts, (In Russian),
W77-08253 1017 5B

Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Water Resources Data for Connecticut, Water Year 1975,
W77-08480 1017 7C

Water Resources Data for New York, Water Year 1975.
W77-08485 1017 7C

Allocating Buried Treasure: Federal Litigation Involving Interstate Ground Water,
W77-08491 1017 6E

Ground Water - Solar Heat,
W77-08652 1018 8C

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Water Resources Data for Washington, Water Year 1975.
W77-08737 1018 7C

Water Resources Data for Montana, Water Year 1975.
W77-08738 1018 7C

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Water for Industrial and Agricultural Development in Attala, Holmes, Humphreys, Issaquena, Sharkey, and Yazoo Counties, Mississippi,
W77-08748 1018 4B

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

Digital Model Studies of Steady-State Radial Flow to Partially Penetrating Wells in Alluvial Plains,
W77-08838 1018 2F

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

A 'Rough Cut' Model of a South Florida Water Supply Plan,
W77-08980 1018 4B

Ground-Water Use Act (Regulation of Ground Water Resources Thru a Permit System).
W77-08999 1018 6E

Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

Solute Travel Times to Wells,
W77-09042 1018 5B

Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

Water Resources Data for Mississippi, Water Year 1975.
W77-09074 1018 7C

Water Resources Data for North Dakota, Water Year 1975.
W77-09075 1018 7C

Chemical and Isotopic Investigations of Groundwater in Potential Geothermal Areas in Hawaii,
W77-09082 1018 2K

Integral Equation for the Description of Stream-Aquifer Interaction,
W77-09092 1018 2F

The Age of Groundwater in the Lincolnshire Limestone, England and its Relevance to the Flow Mechanism,
W77-09107 1019 2F

Recharge to Bunter Sandstone Determined From Lysimeters,
W77-09108 1019 2F

Validation of an Axisymmetric Pseudo-Unconfined Time-Variant Digital Model,
W77-09112 1019 2F

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

Type Curves for Recovery of a Discharging Well with Storage,
W77-09340 1019 2F

Soil Nitrates Following Four Years Continuous Corn and as Surveyed in Irrigated Farm Fields of Central and Eastern Colorado,
W77-09429 1019 5B

Simplified Long Term Concept for Evaluating Leaching of Nitrogen from Agricultural Land,
W77-09446 1019 5B

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

The Fate of Pollutants in Subsurface Environments,
W77-09915 1020 5B

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-09917 1020 5B

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

Movement of Carbaryl Through Congaree Soil into Ground Water,
W77-09976 1020 5B

Water Resources Data for Ohio, Water Year 1975--Volume 1. Ohio River Basin.
W77-10000 1020 7C

Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

Water Resources Data For Wyoming, Water Year 1975.
W77-10002 1020 7C

Water Quality Program of the U.S. Geological Survey,
W77-10006 1020 5A

Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes,
W77-10139 1021 2H

Impact of Legal Constraints on Ground-Water Resource Development in Idaho,
W77-10173 1021 6E

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

Kansas Task Force to Develop Water Use Program to Resolve Serious Problems,
W77-10522 1021 4B

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Water Resources Data for Texas, Water Year 1975--Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and Intervening Coastal Basins.
W77-10552 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin and Intervening Coastal Basins.
W77-10553 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin and Intervening Coastal Basins.
W77-10554 1021 7C

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

Distribution of Nitrate in Ground Water, Redlands, California,
W77-10558 1021 5B

Public Water Supplies of North Carolina, Part 4. Northern Coastal Plain,
W77-10561 1021 6D

Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Modeling of Unconfined Ground-Water Systems,
W77-10661 1021 2F

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

Permissible Mesh Spacing in Aquifer Problems Solved by Finite Differences,
W77-10765 1021 2F

Computer Modelling of Regional Groundwater Systems in the Confined-Unconfined Flow Regime,
W77-10766 1021 2F

Statistical Applications in Groundwater Systems,
W77-10789 1021 2F

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

Toxic Metals in Ground Water of the Front Range, Colorado,
W77-10853 1022 5A

Water Resources Data for New Jersey, Water Year 1975.
W77-10854 1022 7C

Water Resources Data for Virginia, Water Year 1975.
W77-10856 1022 7C

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

The Arizona Groundwater Controversy at Mid-Century,
W77-11102 1022 6E

EPA Jurisdiction Over Well Injection Under the Federal Water Pollution Control Act,
W77-11164 1022 5G

Water Resources Data for Maine, Water Year 1975.
W77-11371 1022 7C

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

Water Resources Data for Maryland and Delaware, Water Year 1975.
W77-11373 1022 7C

Water Resources Data for Kansas, Water Year 1976.
W77-11374 1022 7C

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

Hot Groundwater Systems in Iceland Traced by Deuterium,
W77-11812 1023 2F

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

Water Resources Data for Florida, Water Year 1975--Volume 2. Southern Florida.
W77-11876 1023 7C

Water Resources Data for Florida, Water Year 1975--Volume 1. Northern Florida.
W77-11877 1023 7C

Water and Development in Saudi Arabia,
W77-11991 1023 4B

Effect of Depth and Quality of Ground Water on Soil Salinization: A Field Study with a Fluctuating Water Table,
W77-12000 1023 2G

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

Water Resources Data for Nevada, Water Year 1976.
W77-12386 1024 7C

Water Resources Data for Alabama, Water Year 1976.
W77-12387 1024 7C

Water Resources Data for South Carolina, Water Year 1976.
W77-12388 1024 7C

Water Resources Data for Kentucky, Water Year 1976.
W77-12389 1024 7C

Water Quality Management--Waste Disposal: A Water Authority Viewpoint,
W77-12428 1024 5E

Energy (Hot Water) Storage in Groundwater Aquifers,
W77-12625 1024 4B

Underground Reservoirs to Control the Water Cycle,
W77-12667 1024 2F

Digital Monitors for Ohio's Wells.
W77-12675 1024 4B

Water Well Journal Funds Heat Pump Research.
W77-12676 1024 8C

Groundwater of Voyvodina, Its Quality and Applicability for Irrigation,
W77-12728 1024 5B

Calculation and Prediction of the Salt Regime of Lowland Soils Under Influence of Groundwater Salinization,
W77-12729 1024 2G

Problems of Managing Geothermal Waters for Irrigation,
W77-12735 1024 3C

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

Land Subsidence and Cracking Due to Ground-Water Depletion,
W77-12803 1024 2F

Hydrogeochemical Relationships Using Partial Correlation Coefficients,
W77-12808 1024 2F

Law of Ground Water in Pennsylvania,
W77-12887 1024 4B

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

GROUNDWATER AGE

Trichlorofluoromethane in Ground Water - A Possible Indicator of Ground-Water Age,
W77-05851 1012 2F

The Age of Groundwater in the Lincolnshire Limestone, England and its Relevance to the Flow Mechanism,
W77-09107 1019 2F

GROUNDWATER AVAILABILITY

Water Zoning - Tool for Ground-Water Basin Managers,
W77-00552 1002 6F

Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

The Ground Water Legal Regime as Instrument of Policy Objectives and Management Requirements,
W77-01181 1003 6E

Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

Ground-Water Quality Data for Georgia,
W77-03333 1007 7C

Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

Ground Water Problems with Oil Shale Mining in the Piceance Basin,
W77-06045 1012 4B

Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

Gravity-Measuring Device for Water and Mineral Detection,
W77-08010 1016 7B

Ground-Water Resources of Vanderburgh County, Indiana,
W77-08170 1017 4B

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Ground-Water Use Act (Regulation of Ground Water Resources Thru a Permit System).
W77-08999 1018 6E

An Economic Analysis of Irrigated Farming with Diminishing Ground Water Reserves,
W77-10748 1021 4B

The Potential for Growth and Development in Tennessee,
W77-10916 1022 6D

Source, Consumption and Use of Brackish Water in Israel,
W77-11061 1022 3C

The Groundwater Resources of Uruguay,
W77-12312 1024 4B

GROUNDWATER BARRIERS

Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

GROUNDWATER BASINS

Water Zoning - Tool for Ground-Water Basin Managers,
W77-00552 1002 6F

Annual Operation of a Coastal Groundwater Basin at a Prescribed Reliability Level,
W77-01882 1004 4B

Optimal Management of the Subsurface Environment,
W77-01884 1004 4B

California's Ground Water.
W77-03548 1007 4B

Ground Water Resources of the Bedrock Aquifers of the Denver Basin Colorado,
W77-04126 1009 2F

Ground Water Problems with Oil Shale Mining in the Piceance Basin,
W77-06045 1012 4B

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

GROUNDWATER DATA MANAGEMENT

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

GROUNDWATER DECLINE

Making Water Available for Irrigation,
W77-04293 1009 4B

GROUNDWATER DEPLETION

40 GPM. It Works If You Have Enough Wells,
W77-01762 1004 4B

Nearly 50,000 Nebraska Wells Causing Some Concern.
W77-01765 1004 4B

GROUNDWATER DISCHARGE

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

GROUNDWATER EVALUATION

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

GROUNDWATER GEOLOGY

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

GROUNDWATER HEAT PUMPS

NWWA Ground Water Heat Pump Research Imperatives,
W77-07692 1016 8C

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

Water Well Journal Funds Heat Pump Research.
W77-12676 1024 8C

GROUNDWATER HYDRAULICS

Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

GROUNDWATER LAW

Groundwater and Groundwater Law in Massachusetts.
W77-02437 1005 4B

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

GROUNDWATER LEGISLATION

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

GROUNDWATER LITIGATION

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

GROUNDWATER MANAGEMENT

The Algebraic Technological Function - A Mechanism for Integrating Physical and Economic Factors in Groundwater Management,
W77-06339 1013 4B

Farmers Investment Company V Bettwy (Doctrine of Reasonable Use as Applied to Groundwaters).
W77-08137 1017 6E

Wood V. Board of Commissioners for the Pontchartrain Levee District (Land Appropriation for Levees),
W77-08144 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

Water Projects Go Underground,
W77-12886 1024 4B

Law of Ground Water in Pennsylvania,
W77-12887 1024 4B

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

GROUNDWATER MINING

A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

GROUNDWATER MODELING

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

GROUNDWATER MODELS

Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Permissible Mesh Spacing in Aquifer Problems Solved by Finite Differences,
W77-10765 1021 2F

Computer Modelling of Regional Groundwater Systems in the Confined-Unconfined Flow Regime,
W77-10766 1021 2F

Simulation Procedure for Modeling Transient Water-Table and Artesian Stress and Response,
W77-12391 1024 2F

GROUNDWATER MONITORING

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

GROUNDWATER MONITORING COSTS

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

GROUNDWATER MONITORING METHODOLOGY
Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

GROUNDWATER MOUNDS
Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

The Unsteady Groundwater Mound Below an Irrigation Ditch or Leaky Canal,
W77-12801 1024 2G

GROUNDWATER MOVEMENT
Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

Hydrogeology of a Drift Filled Bedrock Valley Near Lino Lakes, Anoka County, Minnesota,
W77-00860 1002 2F

Computer Simulation Model of the Pleistocene Valleyfill Aquifer in Southwestern Essex and Southeastern Morris Counties, New Jersey,
W77-00865 1002 2F

Unsteady Groundwater Flow Beneath Strip Oceanic Islands,
W77-01143 1003 2F

Transient Drainage with Nonlinearity and Capillarity,
W77-01633 1004 2F

Hydrogeology of a Cavernous Limestone Terrane and the Hydrochemical Mechanisms of its Formation, Mohawk River Basin, New York,
W77-02022 1004 2F

Detection of Subsurface Solution Cavities in Florida Using Electrical Resistivity Measurements,
W77-02517 1005 2F

Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Supplement to Documentation of Finite-Difference Model for Simulation of Three-Dimensional Ground-Water Flow,
W77-03329 1007 2F

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

Preliminary Digital Model of Ground-Water Flow in the Madison Group, Powder River Basin and Adjacent areas, Wyoming, Montana, South Dakota, North Dakota, and Nebraska,
W77-03882 1008 2F

Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Hydrology of Saline Seeps in the Northern Great Plains,
W77-04268 1009 5G

Periodic Solutions of a Nonlinear Diffusion Equation Used in Groundwater Flow Theory: Examination Using a Hele-Shaw Model,
W77-04761 1010 2F

Movement of Subterranean Waters in the Ecosystem of the Amazonian Campina, (In Portugese),
W77-04773 1010 2F

Soil Water Movement: Infiltration, Redistribution, and Groundwater Movement,
W77-04776 1010 2G

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Numerical Predictions of Two-Dimensional Transient Groundwater Flow by the Method of Characteristics,
W77-05173 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

A Decomposed Aquifer Model Suitable for Management,
W77-05737 1012 2F

Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Permeation Properties of the Bunter Sandstone of Northwest Lancashire, England,
W77-05793 1012 2F

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Thermal Convection in a Cavernous Aquifer,
W77-05951 1012 2F

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

An Integrated Approach to Delineating Contaminated Ground Water,
W77-06311 1013 5B

Hydrologic Relations Between Lakes and Aquifers in a Recharge Area Near Orlando, Florida,
W77-06348 1013 4B

Chemical Dynamics of a Confined Limestone Aquifer,
W77-06399 1013 2F

Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite,
W77-06975 1014 5B

Application of Digital Modelling to the Prediction of Radioisotope Migration in Groundwater,
W77-06981 1014 5B

Non-Equilibrium Thermodynamics of Groundwater Flow Systems: Symmetry Properties of Phenomenological Coefficients and Considerations of Hydrodynamic Dispersion,
W77-07143 1015 2F

Finite-Element Analysis of Groundwater Flow in Multiaquifer Systems, I. The Behavior of Hydrological Properties in an Aquitard While Being Pumped,
W77-07148 1015 2F

Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York,
W77-07479 1015 2F

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Effect of Dip on the Storage of Fresh Water (or the Disposal of Waste) in a Saline Aquifer,
W77-08288 1017 4B

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Digital Model Studies of Steady-State Radial Flow to Partially Penetrating Wells in Alluvial Plains,
W77-08838 1018 2F

Finite Element Solution of the Two-Dimensional Unsaturated Flow Equation,
W77-08923 1018 2G

Transient Analysis of Phreatic Aquifers Lying Between Two Open Channels,
W77-09026 1018 2F

Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

Solute Travel Times to Wells,
W77-09042 1018 5B

Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

The Spacial Distribution of Groundwater Discharge into the Littoral Zone of a New Zealand Lake,
W77-09341 1019 2F

Finite-Element Analysis of Groundwater Flow in Multi-Aquifer Systems, II. A Quasi Three-Dimensional Flow Model,
W77-09362 1019 2F

Drain Spacing Based on Dynamic Equilibrium,
W77-09698 1020 2F

Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow 1. Theory and Numerical Properties,
W77-10008 1020 2F

Method for Roughly Estimating the Water Exchange of a Reservoir with an Aquifer Hydraulically Connected with It,
W77-10321 1021 4B

The Use of Natural Tritium for Evaluating Aquifer Recharge,
W77-10372 1021 2F

Consequences of Groundwater Extraction on Evapotranspiration and Saturated-Unsaturated Flow,
W77-10422 1021 4B

Application of Dynamic Programming to Model Tri-Dimensional Flow in Porous Media (Application de la Programation Dynamique aux Modeles Tridemensionnels de Calcul des Ecoulements dans les Milieux Poreux),
W77-10429 1021 2F

Groundwater Monitoring Wells,
W77-10517 1021 5B

Numerical Modeling of Subsurface Radioactive Solute Transport from Waste-Seepage Ponds at the Idaho National Engineering Laboratory,
W77-10570 1021 5B

Ground Subsidence Due to Nonlinear Flow Through Deformable Porous Media,
W77-10763 1021 2F

Computer Modelling of Regional Groundwater Systems in the Confined-Unconfined Flow Regime,
W77-10766 1021 2F

Numerical Model for Saturated-Unsaturated Flow in Deformable Porous Media, 1. Theory,
W77-11223 1022 2F

Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

Ground Water Recharge in Western Uttar Pradesh,
W77-11932 1023 4B

A Multi-Layer Model for Gravity Drainage of Unsaturated Soil,
W77-12093 1023 2F

Groundwater Chemistry and the Transport Equations,
W77-12112 1023 2F

Derivation of Equations Describing Solute Transport in Ground Water,
W77-12381 1024 5B

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

Simulation Procedure for Modeling Transient Water-Table and Artesian Stress and Response,
W77-12391 1024 2F

GROUNDWATER MOVEMENTS

Cyanide Mobility in Soils,
W77-11619 1023 5B

GROUNDWATER NITRATE STUDIES

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

GROUNDWATER POTENTIAL

A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

GROUNDWATER PROSPECTING

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

GROUNDWATER PROTECTION

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

GROUNDWATER QUALITY

An Integrated Approach to Delineating Contaminated Ground Water,
W77-06311 1013 5B

Ground-Water Turbidity Resulting from Artificial Recharge,
W77-06312 1013 5B

GROUNDWATER QUALITY PROTECTION

Vermont's Needs in Water Resources Research,
W77-12268 1024 6B

GROUNDWATER RECHARGE

Wastewater Reclamation Project, St. Croix, U.S. Virgin Islands,
W77-00630 1002 5D

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Hydrodynamics of Perched Mounds,
W77-01141 1003 4B

Prediction of Mound Geometry Under Recharge Basins,
W77-02144 1005 2F

The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

Permeability and Ground Water Circulation in the Madison Aquifer Along the Eastern Flank of the Bighorn Mountains of Wyoming,
W77-03122 1007 2F

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Ground Water Basin Protection Projects: Fremont Salinity Barrier.
W77-03555 1007 4B

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas which May Contribute to Drinking Water Problems,
W77-03567 1007 5B

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

Making Water Available for Irrigation,
W77-04293 1009 4B

Monitoring Cyclic Fluctuations in Ground-Water Quality,
W77-04760 1010 5B

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

The Dashte-Naz Ground-Water Barrier and Recharge Project,
W77-05365 1011 4B

Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

Trichlorofluoromethane in Ground Water - A Possible Indicator of Ground-Water Age,
W77-05851 1012 2F

Dupuit-Forchheimer and Potential Theories for Recharge from Basins,
W77-06004 1012 2F

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Pros and Cons of Storm Water Recharge Wells,
W77-06324 1013 5B

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

Interconnection of Surface and Underground Water Resources in Southeast Durham,
W77-07149 1015 4B

Consumptive Use of Ground Water,
W77-07257 1015 6E

NWWA Ground Water Heat Pump Research Imperatives,
W77-07692 1016 8C

Waste Water Reclamation in St. Croix,
W77-07875 1016 5D

Waste Water Reclamation at St. Croix, U.S. Virgin Islands,
W77-08086 1016 4B

Effect of Dip on the Storage of Fresh Water (or the Disposal of Waste) in a Saline Aquifer,
W77-08288 1017 4B

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Character of Seepage of Precipitation to the Water Table in the Central Forest Steppe,
W77-09043 1018 4B

Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

Recharge to Bunter Sandstone Determined From Lysimeters,
W77-09108 1019 2F

Profile Desaturation During Sediment Deposition in a Groundwater Recharge Trench,
W77-09115 1019 4B

Tritium in the Monitoring of Water Supply.
W77-10196 1021 2F

Current Trends in Water Reclamation Technology,
W77-10649 1021 5D

Shallow Aquifers Relative to Surface Water, Lower North Platte River Valley, Wyoming,
W77-11402 1022 4B

Biological Control of Water Pollution.
W77-11690 1023 5G

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

Relationship of Tectonic Structure to Aquifer Mechanics in the Western Grand Canyon District, Arizona,
W77-11867 1023 2F

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

Ground Water Recharge in Western Uttar Pradesh,
W77-11932 1023 4B

A Multi-Layer Model for Gravity Drainage of Unsaturated Soil,
W77-12093 1023 2F

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

The Groundwater Resources of Uruguay,
W77-12312 1024 4B

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

Water Zoning - Tool for Ground-Water Basin Managers,
W77-00552 1002 6F

Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
W77-00850 1002 7C

Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

Deep Well Wastes May be Water Hazards.
W77-01083 1003 5B

Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Groundwater and Groundwater Law in Massachusetts.
W77-02437 1005 4B

Water Under the Sand,
W77-02852 1006 4B

An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Ground-Water Levels in New Mexico, 1975,
W77-03330 1007 7C

Ground-Water Quality Data for Georgia,
W77-03333 1007 7C

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Water Management and Regulation of Water Use,
W77-03525 1007 6B

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

Water Availability, Quality, and use in Alaska.
W77-03883 1008 6B

Introduction to Ground-Water Hydraulics--A Programed Text for Self-Instruction,
W77-03884 1008 8B

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

Ground-Water Resources and Geology of Jefferson County, Wisconsin,
W77-03889 1008 4B

Water Resources of El Paso County, Colorado,
W77-03890 1008 6D

Ground-Water Resources of the White River Junction Area, Vermont,
W77-04221 1009 4B

Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

Water Resources of South-Central Missouri,
W77-04223 1009 7C

Water Resources of the Big Fork River Watershed, North-Central Minnesota,
W77-04233 1009 7C

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

Water (General Interpretation and Administration Provisions).
W77-04383 1009 6E

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Ground-Water Data for Leflore County, Mississippi,
W77-05265 1011 7C

Ground-Water Data for Humphreys County, Mississippi,
W77-05266 1011 7C

Ground-Water Data for Issaquena County, Mississippi,
W77-05267 1011 7C

Ground-Water Data for Quitman County, Mississippi,
W77-05268 1011 7C

Ground-Water Data for Coahoma County, Mississippi,
W77-05269 1011 7C

Ground-Water Data for Tate County, Mississippi,
W77-05270 1011 7C

Ground-Water Data for Tunica County, Mississippi,
W77-05271 1011 7C

Groundwater Levels in Nebraska, 1975,
W77-05274 1011 2F

Ground-Water Pollution Problems in the Northwestern United States,
W77-05307 1011 5B

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

Water Resources of Washtenaw County, Michigan,
W77-05759 1012 6D

Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

Water Resources of the North Coast Limestone Area, Puerto Rico,
W77-06335 1013 4B

Availability of Water Supplies in Northwest Georgia,
W77-06336 1013 4A

Brief Summary of the Hydrogeology of Bangladesh,
W77-06342 1013 4B

Water Supply and Waste Disposal, Culebra, Puerto Rico,
W77-06345 1013 5E

Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

On Large-Scale Simulation of Groundwater Flow Systems,
W77-06713 1014 4B

Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

Major Aquifers in Deuel and Hamlin Counties, South Dakota,
W77-07483 1015 4B

Management Model for Ground Water Development,
W77-07529 1015 4B

Waste Water Reclamation in St. Croix,
W77-07875 1016 5D

Deep Water Resources of the Limestones of Franche-Comte: Problems of Quantity and Quality, (In French),
W77-08122 1017 4B

Farmers Investment Company V Bettwy (Doctrine of Reasonable Use as Applied to Groundwaters).
W77-08137 1017 6E

Water Resources of the Myakka River Basin Area, Southwest Florida,
W77-08167 1017 4B

Ground-Water Resources of Vanderburgh County, Indiana,
W77-08170 1017 4B

Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Annual Summary of Ground-Water Conditions in Arizona, Spring 1975 to Spring 1976,
W77-08732 1018 7C

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Water-Level Changes in Northwestern Kansas, 1950-76,
W77-08742 1018 4B

Ground-Water Data for Michigan, 1975,
W77-08753 1018 7C

A 'Rough Cut' Model of a South Florida Water Supply Plan.
W77-08980 1018 4B

Ground-Water Use Act (Regulation of Ground Water Resources Thru a Permit System).
W77-08999 1018 6E

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

Groundwater Resources of Australia.
W77-09103 1019 4B

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

An Electric Analog and Digital Computer Model of the Chipuxet Ground Water Aquifer, Kingston, Rhode Island,
W77-09637 1020 2F

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands,
W77-09995 1020 5B

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

Selected Water-Level Records for Western Oklahoma, 1975-1976,
W77-09998 1020 7C

Ground-Water Levels in Observation Wells in Oklahoma, 1975,
W77-09999 1020 7C

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

Ground Water Act of 1955 (Regulation of Underground Waters Thru a Permit System).
W77-10495 1021 6E

Hydrologic Evaluation of Ashley Valley, Northern Uinta Basin Area, Utah,
W77-10564 1021 2A

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

Ground-Water Conditions in Utah, Spring of 1977,
W77-10864 1022 4B

Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Ground Water System Evaluation for Wadi Nisah-Saudi Arabia,
W77-11426 1022 4B

Summary Appraisals of the Nation's Ground-Water Resources--Great Basin Region,
W77-11873 1023 4B

The Groundwater Resources of Uruguay,
W77-12312 1024 4B

Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

Fresh-Water Resources in the Southeastern Part of the Tularosa Basin,
W77-12392 1024 4A

Groundwater Levels in Nebraska, 1976,
W77-12393 1024 4B

GROUNDWATER RESOURCES (GUAM)
Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

GROUNDWATER SALINITY
Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

GROUNDWATER-SURFACE WATER RELATIONSHIPS
The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

GROUNDWATER TURBIDITY
Ground-Water Turbidity Resulting from Artificial Recharge,
W77-06312 1013 5B

GROUNDWATERHEAT PUMPS
Research Foundation Utilizes Ground Water Heat Pumps,
W77-07693 1016 8C

GROUNDWATERS
Hydrochemical Characteristics of Ground Waters in the Lowland Between the Rivers Timis and Bega, (In Romanian),
W77-05166 1011 2F

GROUNDWOOD MILLS
Toxic Constituents in Woodroom Effluents,
W77-01667 1004 5B

Chemistry of West Coast Groundwood Effluent Toxicity,
W77-01668 1004 5C

GROUT CURTAINS
Heavy Rains, Poor Soil Force Internal Sewer Repair.
W77-12459 1024 8F

GROUTING
Polyurethane Foam--A Useful New Borehole Grout,
W77-05150 1011 2G

Testing and Grouting Leaking Joints,
W77-06986 1014 8G

Grout Routs Sewer Problems,
W77-10590 1021 5D

GROWING SEASON
Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

GROWTH
Nutrition de la Larve de Turbot (Scophthalmus Maximus L.) Avant la Metamorphose,
W77-04526 1009 5C

GROWTH CHAMBERS
Process for Promotion of Algae Growth in a Sewage Medium,
W77-12949 1024 5D

GROWTH INGIBITION
Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

GROWTH MANAGEMENT
Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

GROWTH MEDIA EVALUATION
Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

GROWTH RATE
Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

GROWTH RATES
Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

Effects of Slag on Aquatic Life,
W77-00625 1002 5C

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

Growth and Production of Mass Species of Chironomids (Diptera, Tendipedidae) in the Volga Pre-Delta, (In Russian),
W77-01025 1002 5C

Growth of the Yellowcheek Elopichthys Bambusa (Rich.) in the Amur Basin, (In Russian),
W77-01229 1003 2I

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

The Effect of Environmental Factors on the Growth of a Natural Pasture,
W77-01285 1003 2I

A Laboratory Evaluation of a Dye for the Control of Alagal Growth,
W77-01355 1003 5G

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

The Influence of Soil Moisture After Planting on the Growth and Differentiation of the Pedunculate Oak (Quercus Pedunculata Ehrh. Var. Tardiflora Czer, (In Bulgarian),
W77-01498 1003 2I

Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Kinetics of Silicon-Limited Growth in the Freshwater Diatom Asterionella Formosa,
W77-02035 1004 5C

Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Effects of Constant and Rising Temperatures on Survival and Development Rates of Embryonic and Larval Yellow Perch, Perca Flavescens (Mitchill),
W77-04550 1009 5C

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

Prediction of the Phytoplankton Development in Designed Reservoirs by Combining a Growth-Model and the Analogy to Existing Reservoirs, (In German),
W77-04584 1009 5C

Effect of Konakova State Regional Electric Power Station Heated Water Discharge on the Bream Growth in the Ivankov Reservoir, (In Russian),
W77-04589 1009 5C

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

Effect of Temperature on Growth, Mortality, Reproduction, and Production of Adult Snails,
W77-05550 1011 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Temperature as a Growth Accelerator in the Spot (Teleost: Sciaenidae),
W77-05556 1011 5C

Growth Rates of Subadult Largemouth Bass at 24 to 35.5C,
W77-05557 1011 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

The Effect of Selenium on the Ultrastructure and Physiological Properties of the Blue-Green Alga, Phormidium Luridum var. Olivacea,
W77-05729 1012 5C

The Age and Growth of the Largemouth Bass Micropterus Salmoides (Lacepede), in a Thermally Loaded Reservoir,
W77-05731 1012 5C

Growth of the White Crappie on a Reservoir Receiving a Thermal Discharge: Thomas Hill, Missouri,
W77-05732 1012 5C

Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and

Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Day Degree Growth Models for Intertidal Oysters,
W77-07376 1015 2L

Summer Growth Depression in the Striped Mullet, Mugil Cephalus L.,
W77-07378 1015 5C

Response of the Marine Angiosperm Phyllospadix Torreyi to Certain Environmental Variables: A Preliminary Study,
W77-07379 1015 5C

Aspects of the Life History of Tresus Nuttallii in Elkhorn Slough,
W77-07388 1015 2L

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Optimal Growth Temperatures and Media Parameters of Bacterial Communities from Lakes of Different Trophic States,
W77-07994 1016 5C

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Effect of Water Deficiency on the Growth Rate of Some Winter Soft Wheat Cultivars, (In Bulgarian),
W77-08716 1018 3F

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Effect of Parasites on the Condition and Growth of Young Fish of the Kremenchug Reservoir, (In Russian),
W77-09278 1019 2I

Clean Air Equals Dirty Water,
W77-09544 1019 5G

Secondary Autumn Shoot Formation in Spring Wheat: I. The Role of Drought Damage and Developmental Stages, (In Russian),
W77-09545 1019 2I

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Simulation of Plant Growth by Humic Substances,
W77-09963 1020 2I

Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes,
W77-10139 1021 2H

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Activity of Intestinal Aryl Hydrocarbon Hydroxylase in Guinea Pigs Fed High Element Containing Sludge-Grown Cabbage,
W77-10576 1021 5C

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Effects of Dietary Fenitrothion on Growth and Hierarchical Position of Brook Trout,
W77-11354 1022 5C

Growth Rate and Nutrient Uptake of Two Cotton Cultivars Grown Under Irrigation,
W77-11393 1022 3F

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Growth of the Cichlid Fish Tylochromis Bangwelensis in Lake Bangweulu, Zambia,
W77-11646 1023 2H

Waste Heat Employment for Accelerated Rearing of Coho Salmon,
W77-11664 1023 5C

New Growth Centers--A Role for the Bureau of Reclamation,
W77-11775 1023 6B

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

Distribution and Ecological Significance of Vitamin B12 and Thiamin in Three Lakes, (In French),
W77-12334 1024 2H

The Biology of Daphnia Magna Straus and the Production of Its Population in Lake Bugaevo (Krasnoyarsk Krai), (In Russian),
W77-12616 1024 2H

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

Studies on Plover Cove Reservoir, Hong Kong III. A Comparison of the Species Composition of Diatom Floras on Different Substrates, and the Effects of Environmental Factors on Their Growth,
W77-12783 1024 5C

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

Nitrogen Nutrition of Rice Plants Measured by Growth and Nutrient Content in Pot Experiments: 4. Role of the Water Regime,
W77-12858 1024 3F

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

GROWTH RATES FISH

Change of Biocenoses in Artificial Bodies of Water Due to Human Intervention, (In Russian),
W77-03618 1008 5C

GROWTH REGULATOR (KYLAR)

Response of Two Peanut Cultivars to Irrigation and Kylar,
W77-06092 1012 3F

GROWTH REGULATORS

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

GROWTH STAGES

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Growth of Carp Fry Under Experimental Conditions, (In Russian),
W77-02006 1004 2I

Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

Progress Towards the Development of a Successful Rearing Technique for Larvae of the Turbot, Scophthalmus Maximus L.,
W77-04527 1009 2I

A Comparison of Larvae of the Deepwater and Fourhorn Sculpin, Myoxocephalus Quadricornis L. From North America. I. Morphological Development,
W77-04530 1009 2I

The Diverse Patterns of Metamorphosis in Gonostomatid Fishes-An Aid to Classification,
W77-04534 1009 2I

Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

Development of the Respiratory System in Herring and Plaice Larvae,
W77-04548 1009 2I

Temperature Tolerance of Early Development Stages of Dover Sole, Solea Solea (L.),
W77-04549 1009 5C

Effect of Temperature on Growth, Mortality, Reproduction, and Production of Adult Snails,
W77-05550 1011 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Development of Eggs and Embryos of the Surf Clam, Spisula Solidissima, in Synthetic Seawater,
W77-07396 1015 5C

Neoplastic and Possibly Related Skin Lesions in Neotenic Tiger Salamanders from a Sewage Lagoon,
W77-08729 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Effect of Parasites on the Condition and Growth of Young Fish of the Kremenchug Reservoir, (In Russian),
W77-09278 1019 2I

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Grain Sorghum Response to Inundation at Three Growth Stages,
W77-11408 1022 3F

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

Model Kumulacji 137CS U Karpia (Cyprinus Carpio L.) a Model of the Cumulation of 137CS in the Carp Cyprinus Carpio L.), (In Polish),
W77-12215 1023 5C

GUADALUPE-SAN ANTONIO RIVER BASIN (TEX)
Environmental Impact Assessment, Water Quality Analysis, Guadalupe-San Antonio River Basin,
W77-01962 1004 5G

GUAIACOLS
Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

GUAICOLS
(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

GUAM
Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

GUATEMALA
Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

GUAYANILLA BAY (P.R.)
Rooting and Growth of Red Mangrove Seedlings from Thermally Stressed Trees,
W77-05547 1011 5C

GUAYANILLA BAY (PR)
Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

GULF COAST
United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

GULF COAST (TEX)
Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

GULF COASTAL PLAIN
Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

GULF INTRACOASTAL WATERWAY
Coastal Waterway Act of 1975.
W77-12907 1024 6E

GULF MENHADEN
Forecasts of Atlantic and Gulf Menhaden Catches Based on the Historical Relation of Catch and Fishing Effort,
W77-00388 1001 6C

Status of the Gulf and Atlantic Manhaden Fisheries and Implications for Resource Management,
W77-00389 1001 6C

GULF OF ALASKA
Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

Environmental Impact Assessment, Water Quality Analysis, Gulf of Alaska.
W77-01966 1004 5G

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

Description of Wind, Current, and Bottom Pressure Variations on the Continental Shelf in the Northeast Gulf of Alaska from February to May 1975,
W77-05154 1011 2L

On the Ocean Temperature Distribution in the Guif of Alaska, 1974-1975,
W77-06320 1013 2L

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

GULF OF CALIFORNIA

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

GULF OF FINLAND

Plutonium Foodchains,
W77-04520 1009 5C

GULF OF FOS (FRANCE)

Hydrobiological Situation of the Gulf of Fos in 1969, (In French),
W77-06380 1013 5B

GULF OF MAINE

Food and Feeding of Larval Redfish in the Gulf of Maine,
W77-05844 1012 2L

Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

GULF OF MEXICO

United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

Chemical and Physical Characteristics of Water in Estuaries of Texas, October 1971-September 1973,
W77-01416 1003 5B

Movements of Tagged Juvenile Menhaden (Brevoortia Patronus) in the Gulf of Mexico,
W77-02066 1004 8I

History of Ocean Dumping in the Gulf of Mexico,
W77-02668 1006 5E

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Effects of Sample Handling on the Composition of Marine Sedimentary Pore Water,
W77-07742 1016 5A

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

Current Dynamics and Sediment Distribution in the West Mississippi Delta Area,
W77-10032 1020 2L

Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

Continental Shelf Currents in Tropical Storm Delia: Observations and Theory,
W77-12298 1024 2L

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

GULF OF ST. LAWRENCE

Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

GULF OF ST. LAWRENCE (GASPE STRAIT)
Study of the Benthic Population of Deep Silts from the Gaspe Strait (Gulf of the Saint Lawrence), (In French),
W77-12466 1024 2L

GULF STREAM
Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Geographical Variability of the Internal Wave Field: A Search for Sources and Sinks,
W77-00135 1001 2L

An Investigation of a Cold Eddy on the Eastern Side of the Gulf Stream Using NOAA 2 and NOAA 3 Satellite Data and Ship Data,
W77-00364 1001 2L

The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Gulf Stream Kinematics Inferred from a Satellite-Tracked Drifter,
W77-02140 1005 2L

Measurements of a Small Near-Bottom Cyclonic Circulation Near the Gulf Stream Axis,
W77-03842 1008 2L

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

Tracking a Gulf Stream Ring with a Free Drifting Surface Buoy,
W77-12300 1024 2L

GULF STREAM RINGS
Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Tracking a Gulf Stream Ring with a Free Drifting Surface Buoy,
W77-12300 1024 2L

GULFS
The Delineation and Growth of a Sludge Field,
W77-00603 1002 5C

Environmental Impact Assessment, Water Quality Analysis, Gulf of Alaska.
W77-01966 1004 5G

On the Ocean Temperature Distribution in the Gulf of Alaska, 1974-1975,
W77-06320 1013 2L

GULLIES
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

Soil Movement in Established Gullies After a Single Prescribed Burn in the South Carolina Piedmont,
W77-05118 1011 4C

Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

GULLS
Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

GULLY CONTROL SYSTEMS
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

GULLY EROSION
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

Gully Wall Stability in Loess-Derived Alluvium,
W77-07764 1016 4D

GULLY GROWTH MODELS
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

GULLY PROCESSES
Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

GULLY WALL STABILITY
Gully Wall Stability in Loess-Derived Alluvium,
W77-07764 1016 4D

GUMMY SHARK
Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

GUTHION
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

GUTHION (R)
Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

GYMNOCEPHALUS CERNUA
Allelic Selection in a Fish (Gymnocephalus Cernua (L.)) Subjected to Hotwater Effluents,
W77-04572 1009 5C

GYMNODINIUM
The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

Gymnodinium Type-'65 Red Tide in Occurring Anoxic Environment of Omura Bay, (In Japanese),
W77-10706 1021 5C

Growth of Gymnodinium Type-'65, Causative Organism of Red Tide in Omura Bay, in Medium Supplied with Bottom Mud Extract,
W77-10707 1021 5C

GYMNODINIUM-SP
Succession of Red Tide Organisms in Omura Bay, with Relation to Water Pollution, (In Japanese),
W77-10997 1022 5C

GYNOGENESIS
Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

Artificial Gynogenesis and Its Application in Genetics and Selective Breeding,
W77-04544 1009 5C

GYPSUM
Gypsum Requirement of Sodic Soils and Waters,
W77-04784 1010 2G

Responses of Three Peanut Cultivars to Gypsum,
W77-12129 1023 3F

GYPSY MOTHS DEFOLIATION
Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

GYRODINIUM
A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

GYRODINIUM SP.
Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

HABITAT IMPROVEMENT
Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

HABITATS
Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

A Study of Habitat Water Regime of Inundated Meadows Near Osijek, (In Croatian),
W77-04582 1009 2G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

HABOOB
Dust Storms,
W77-01895 1004 2B

HACKENSACK MEADOWLANDS (NJ)
Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

HACKENSACK RIVER BASIN (NJ)
Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

HADDOCK
Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

HADLEY CIRCULATION
Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

HAEMATOLOGY
The Seasonal Haematology of the Small-Mouth Yellowfish (Barbus Holubi),
W77-10215 1021 5C

HAEMOGLOBIN
A Seasonal Study of the Haematology of Carp (Cyprinus Carpio) from a Locality in the Transvaal, South Africa,
W77-10216 1021 5C

HAIL
The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

A Review of Hail-Measuring Instruments,
W77-03101 1007 2B

Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

On the Status of Hail Suppression,
W77-06645 1014 3B

Isotopic, Crystal and Air Bubble Structures of Hailstones,
W77-10126 1021 2B

Melting Rates of Various Size Hailstones in a Large Vertical Wind Tunnel,
W77-10307 1021 3B

The Scales of Hail,
W77-11598 1023 2B

HAIL DATA
The Scales of Hail,
W77-11598 1023 2B

HAIL SENSORS
A Review of Hail-Measuring Instruments,
W77-03101 1007 2B

HAIL SUPPRESSION
Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

On the Status of Hail Suppression,
W77-06645 1014 3B

HAILPAD CALIBRATION
The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

HAILPADS
The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

HAILSTONE MELTING
Melting Rates of Various Size Hailstones in a Large Vertical Wind Tunnel,
W77-10307 1021 3B

HAILSTONES
Isotopic, Crystal and Air Bubble Structures of Hailstones,
W77-10126 1021 2B

HALIBUT
Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

HALICHOERUS GRYPUS
Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

HALIDES
Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

HALIFAX
Urban Drainage Model Comparison for a Catchment in Halifax, Nova Scotia,
W77-02764 1006 2A

HALITHOLUS
Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

HALL LAKE (WASH)
Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

HALOCARBONS
Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

HALOCARBONS (HALOGENATED HYDROCARBONS)
Determination of Volatile Halogenated Hydrocarbons in Water by Gas Chromatography,
W77-03787 1008 5A

HALOCLINE
Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

HALOETHERS
Investigation of Selected Potential Environmental Contaminants: Haloethers,
W77-02643 1006 5C

HALOGEN SPECIES
Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

HALOGENATED ALIPHATIC HYDROCARBONS
The Distribution of Short-Chain Halogenated Aliphatic Hydrocarbons in Some Marine Organisms,
W77-04051 1008 5C

HALOGENATED PESTICIDES
Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

HALOGENS
Influence of the Supramolecular Marine Environment on Pitting Corrosion,
W77-00890 1002 8G

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

HALOMETHANES

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

HALOPHYTES

Proximate Nutritive Value Changes During Decomposition of Salt Marsh Plants,
W77-00402 1001 5C

Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

The Effect of NaCl on the Concentration of Proline in Different Halophytes, (In German),
W77-04912 1010 2I

HALOWAX

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

HAM'S LAKE (OKLA)

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

HAMBURG (WEST GERMANY)

Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

HAMMOND LAKE (PENN)

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

HANFORD CREEK (IA)

Flood Plain Information. Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

HANTUSH INFLECTION POINT METHOD

A Simple Computer Program for the Determination of Aquifer Characteristics from Pump Test Data,
W77-01337 1003 7C

HAPLOTAXIDAE

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

HARBOR IMPROVEMENTS

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

HARBOR OSCILLATIONS

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 4, Model Design,
W77-10016 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

HARBOR SEAL

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

HARBOR SEALS

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

HARBORS

Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

Stability of Rubble-Mound Breakwater Lahaina Harbor, Hawaii; Hydraulic Model Investigation,
W77-02940 1006 8B

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Watergate Village: A Case Study of a Permit Application,
W77-04349 1009 6E

Waste Disposal,
W77-04847 1010 5E

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Two-Dimensional Air-Bubble Plume,
W77-05446 1011 8B

Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

The Port of New Orleans and Its Dredging Program,
W77-07348 1015 8D

The Problem of the Sanitary Protection of the Waters of Ports and Coastal Zones of the Black Sea Basin, (In Russian),
W77-08014 1016 5G

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Three-Layer Circulations in Estuaries and Harbors,
W77-09723 1020 2L

Stability of Rubble-Mound Breakwater Jubail Harbor, Saudi Arabia; Hydraulic Model Investigation,
W77-09984 1020 8B

Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

Los Angeles and Long Beach Harbors Model Study; Report 4, Model Design,
W77-10016 1020 8B

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

Deepwater Port Act of 1974: Some International and Environmental Implications,
W77-10456 1021 6E

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

Wave Induced Oscillations in Harbors with Connected Basins,
W77-10884 1022 8B

Oscillations in Harbors Containing Islands,
W77-11046 1022 2L

Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

HARBOUR SEALS

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

HARD CLAMS

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

HARDAP DAM (SOUTH WEST AFRICA)

The Reproduction of Barbus CF. Kimberleyensis (Pisces, Cyprinidae) in the Hardap Dam, South West Africa,
W77-10218 1021 2H

HARDBOARD MILLS

Raw Waste Loading Characteristics and Effluent Quality in the Wet Process Hardboard Manufacturing Industry,
W77-10715 1021 5D

HARDNESS (WATER)

Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

Water Hardness and Incidence of Malignant Neoplasms Among the Population, (In Russian),
W77-02384 1005 5F

Simultaneous Determination of Total, Non-Carbonate and Carbonate Water Hardness by Direct Potentiometry,
W77-03780 1008 5A

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

Limnological Studies in a Large, Deep, Oligotrophic Lake (Lake Ohrid, Yugoslavia). Evaluation of Nutrient Availability and Control of Phytoplankton Production Through In Situ Radiobioassay Procedures,
W77-10141 1021 5C

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

HARFORD COUNTY (MARYLAND)

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

HARLOW (ENGLAND)

Representation of a Catchment by a Network of Reservoirs,
W77-12088 1023 2A

HARPTICOIDS

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

HARRIS RIVER (NWT)

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

HARRISBURG AREA (PA)

Sediment Runoff During Highway Construction,
W77-00847 1002 4C

HARRY S. TRUMAN DAM RESERVOIR (MO)

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

HARTBEESPOORT DAM (SO AFRICA)

Eutrophication Levels of Some South African Impoundments. II. Hartbeespoort Dam,
W77-01392 1003 5C

HARVESTING

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Making Aquatic Weeds Useful: Some Perspectives for Developing Countries.
W77-07964 1016 4A

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

Title to Foreshore--Georgia Tidelands Act of 1902 Grants Right to Cultivate and Harvest Shellfish in Foreshore Area, Fee Simple Reserved in the State (Comment on State V Ashmore).
W77-11463 1022 6E

HARZ MOUNTAINS (FEDERAL REPUBLIC OF GERMANY)

Optimal Operations of Reservoirs in the Harz Mountains,
W77-06715 1014 4A

HATCHERY DISEASES

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

HATCHERY POND

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

HATCHERY TROUGHS

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

HATCHERY WATER SUPPLIES

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

HATCHING

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

HATCHING

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

HATCHING RATES

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

HATIP CAYI RIVER (TURKEY)

The Bactericidal Effect of Bdellovibrio Bacteriovorus, One of the Organisms Effective in Auto-Purification of Water, (In Turkish),
W77-05494 1011 5C

HATTERAS ABYSSAL PLAIN

The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

HAUL ROADS

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

HAVEL LAKE (GERMANY)

Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

HAWAII

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Sources and Sediment Yield of Hawaiian Watershed and Coastal Sediments,
W77-00791 1002 2J

Determining Erosion from Hawaiian Agricultural Lands,
W77-00803 1002 4D

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

Hydrology and Chemistry of Ground Water in Puna, Hawaii,
W77-01628 1004 2F

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Hawaii.
W77-01970 1004 5G

The Toxicity of Selected Chemicals Used in Power Generating Stations to Hawaiian Fishes,
W77-02666 1006 5C

Stability of Rubble-Mound Breakwater Lahaina Harbor, Hawaii; Hydraulic Model Investigation,
W77-02940 1006 8B

Annual Report, 1975-1976, (Hawaii Water Resources Research Center),
W77-03165 1007 9D

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Water Quality Monitoring: Kaneohe Bay and Selected Watersheds July to December 1975,
W77-03826 1008 5B

Limnological Ecosystems and Hawaii's Preservational Planning,
W77-04149 1009 6A

Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

Recycling of Sewage Effluent by Irrigation: A Field Study on Oahu, Final Progress Report for August 1971 to June 1975.
W77-05372 1011 5D

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W77-05672 1012 5A

Water Quality Information Storage and Retrieval System for Hawaii, Phase III: Final Report, (November 1973-September 1974),
W77-05673 1012 5A

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Algal Growth Potential of Waste Water Effluents in Hawaiian Receiving Waters,
W77-05852 1012 5C

Environmental Impacts of Land use Change,
W77-05922 1012 6G

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

Shoreline Setbacks,
W77-06570 1013 6E

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels),
W77-07280 1015 6E

Hydrologic Differences Between Selected Forested and Agricultural Soils in Hawaii,
W77-07765 1016 2G

Inventory of Benthic Organisms and Plankton at Mokapu, Oahu,
W77-07798 1016 2L

Nitrogen Removal from Secondary Effluent by a Laboratory Soil Column,
W77-08607 1018 5B

Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

Ground-Water Use Act (Regulation of Ground Water Resources Thru a Permit System).
W77-08999 1018 6E

Molokai Irrigation and Water Utilization Project.
W77-09000 1018 6E

Chemical and Isotopic Investigations of Groundwater in Potential Geothermal Areas in Hawaii,
W77-09082 1018 2K

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

Use of the Green-Ampt Equation with Variable Conductivity,
W77-09430 1019 2G

Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands,
W77-09995 1020 5B

Relationship Between Nitrogen Fixation (Acetylene Reduction) and the C:N Ratio in a Polluted Coral Reef. Ecosystem, Kaneohe Bay, Hawaii,
W77-10124 1021 5C

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

Water and Land Development (Water Resources Development).
W77-10493 1021 6E

Regional Environmental Management Modeling.
W77-10842 1022 6A

Forest and Water Reserve Zones.
W77-11196 1022 6E

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

A Laboratory Study of Waste Injection into a Ghybenherzberg Groundwater System Under Dynamic Conditions,
W77-12267 1024 8B

Urban Runoff Digital Computer Model,
W77-12316 1024 2E

Bromine Chloride: An Alternative Disinfectant to Chlorine,
W77-12634 1024 5F

HAWAII BOARD OF LAND AND NATURAL RESOURCES

Molokai Irrigation and Water Utilization Project.
W77-09000 1018 6E

HAY

Effects of Treated Municipal Wastewater and Commercial Fertilizer on Growth, Fiber, Acid-Soluble Nucleotides, Protein and Amino Acid Content in Wheat Hay,
W77-08876 1018 5C

HAZARD FUNCTION

Stochastic Models of Sediment Motion on Flat Bed,
W77-03997 1008 2J

HAZARDOUS CHEMICALS

Remote Detection of Water Pollutants by Computerized Laser-Raman Spectroscopy,
W77-00154 1001 5A

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

HAZARDOUS MATERIALS

Degradation Mechanisms: Controlling the Bioaccumulation of Hazardous Materials,
W77-03391 1007 5B

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

HAZARDOUS MATERIALS TRANSPORT

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

The Evaluation of the Test Procedure for Hazardous Binary Combinations of Materials in Marine Transportation,
W77-09236 1019 5G

HAZARDOUS SUBSTANCES

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Lansco, Inc. v Department of Environmental Protection (Insuror's Liability for Cost of Clean Up of Oil Spills).
W77-09574 1019 6E

HAZARDOUS SUBSTANCES (POLLUTION)

Rules and Regulations for Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Domestic Trade,
W77-07254 1015 5G

The Import - Export Clause and Control of Oil Pollution: Regulatory Fee Imposed Pursuant to the Police Power,
W77-08354 1017 5G

Oil Spills and Spills of Hazardous Substances.
W77-08385 1017 5G

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

Ward V Coleman (Constitutionality, and the Criminal or Civil Nature of Fines Under the Federal Water Pollution Control Act).
W77-10479 1021 6E

HAZARDS

FDA's Overview of the Potential Health Hazards Associated with the Land Application of Municipal Wastewater Sludges,
W77-00034 1001 5E

Radiation Hazard from Americium-Beryllium Neutron Moisture Probes,
W77-01324 1003 2G

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

System for Evaluation of the Hazards of Bulk Water Transportation of Industrial Chemicals,
W77-02206 1005 5G

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Tri-County Landfill Company V Illinois Pollution Control Board (Landfills Polluting Waters Termed Hazards).
W77-06066 1012 6E

Salvops-Hopper Dredge 'A. Mackenzie',
W77-07343 1015 8D

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

Gas Detectors Determine Health Hazards in Sewage Treatment.
W77-07880 1016 5A

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

Users Manual - Oil and Hazardous Materials Spill Information Retrieval System.
W77-09229 1019 5G

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

The Evaluation of the Test Procedure for Hazardous Binary Combinations of Materials in Marine Transportation,
W77-09236 1019 5G

HAZARDS

Environmental Impacts of High Level Radioactive Waste Disposal,
W77-09473 1019 5C

Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports October-December 1976. Volume 4: Hazards; Data Management.
W77-12966 1024 6G

HAZELMERE DAM

Change in Big Dam Plan.
W77-01476 1003 8D

HCB (HEXACHLOROBENZENE)

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

HEAD LOSS

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

Flow of Slurries in Pipelines,
W77-10970 1022 8B

HEADGATES

Head Gates; Powers of State Engineer.
W77-03507 1007 6E

HEADWATER STREAMS

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

HEALTH HAZARDS

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

HEARINGS

Changes Urged at NCWQ Hearings,
W77-08967 1018 6E

HEAT

Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

Energy Conservation and Heat Recovery in Waste Water Treatment Plants,
W77-07024 1014 5D

Thermal Pollution and Its Control,
W77-07245 1015 5G

Soil Temperatures and Heat Loss for a Hot Pipe Network Buried in Irrigated Soil,
W77-09654 1020 5D

HEAT BALANCE

The Heat Balance in the Forest-Steppe Mesophilic Deciduous High Oak Forest 'Les Na Vorskle' Under Abnormal Weather Conditions, (In Russian),
W77-00964 1002 2I

Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

Heat Balance in the Estuarine Region, (In Japanese),
W77-05291 1011 2L

Heat Balance in the Ablation Area of the Ampere Glacier (Kerguelen Islands),
W77-06511 1013 2C

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

The Sea Surface Temperature Deviation at Very Low Speeds; Is There a Limit,
W77-10120 1021 2L

HEAT BUDGET

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Experiments with the Surface Heat and Water Budgets of the Canadian Middle North,
W77-03749 1008 2D

Heat Content of North Mississippi Reservoirs,
W77-06088 1012 5B

The Aquatic Thermal Capsule,
W77-09486 1019 5C

HEAT EXCHANGE COEFFICIENT

A Nomogram to Estimate the Heat-Exchange Coefficient at the Air-Water Interface as a Function of Wind Speed and Temperature; A Critical Survey of Some Literature,
W77-00130 1001 2D

HEAT EXCHANGERS

A Nomogram to Estimate the Heat-Exchange Coefficient at the Air-Water Interface as a Function of Wind Speed and Temperature; A Critical Survey of Some Literature,
W77-00130 1001 2D

Reduction of Deposit Formation in Heat Exchangers (Snizhenie osadkoobrazovaniya v teploobmennoi apparature),
W77-03808 1008 8G

Induced Vertical Mixing in a Stratified Impoundment by a Subsurface Warm Water Discharge,
W77-08929 1018 5B

An Energy Accounting Evaluation of Several Alternatives for Hydropower and Geothermal Development,
W77-09057 1018 6B

Thermal Conditioning with Air.
W77-11696 1023 5D

HEAT FLOW

Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Heat and Water Movement under Surface Rocks in a Field Soil: I. Thermal Effects,
W77-01327 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: II. Moisture Effects,
W77-01328 1003 2G

Physical Modeling of Combined Forced and Natural Convection in Wet Geothermal Formations,
W77-07303 1015 4B

Comparison of Field-Measured and Calculated Soil-Heat Fluxes,
W77-09433 1019 2G

Soil-Heat Flux Determination: Temperature Gradient Method with Computed Thermal Conductivities,
W77-09434 1019 2G

Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

Cyclical Energy Transfer Method and Apparatus,
W77-12697 1024 2F

HEAT PUMP

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

HEAT PUMPS

Energy Conservation and Heat Recovery in Waste Water Treatment Plants,
W77-07024 1014 5D

HEAT RECOVERY

How to Reduce Steam Consumption in the Paper Mill Machine Room,
W77-04822 1010 3E

HEAT RESISTANCE

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Evaluation of Wheat Plants with Regard to Drought- and Heat-Resistance Under Field Conditions, (In Russian),
W77-08877 1018 3F

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

HEAT SINKS

An Annular Flow Ice-Water Model Heat Sink,
W77-06889 1014 2C

HEAT STORAGE

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

HEAT STORAGE (ENERGY)

Ground Water - Solar Heat,
W77-08652 1018 8C

HEAT TRANSFER

Water Temperature Simulation,
W77-00616 1002 5B

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

Turbulent Transport to a Rotation Cylinder for Large Prandtl or Schmidt Numbers,
W77-02534 1005 3A

Heat and Mass Transfer in Models of Undeveloped Geothermal Fields,
W77-02805 1006 4B

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

Thermal Loading of Natural Streams,
W77-09068 1018 5B

Effluent Guidelines and Standards Steam Electric Power Generating Point Source Category.
W77-09558 1019 5G

Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

Evaluation of Theoretically Predicted Thermal Conductivities of Soils Under Field and Laboratory Conditions,
W77-11611 1023 2G

HEAT TRANSMISSION

Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

HEAT TRANSPORT

Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

HEAT TREATMENT

Anaerobic Filter Treats Waste Activated Sludge,
W77-07078 1014 5D

Sludge Treatment: Problems and Solutions, Part 1,
W77-08640 1018 5D

Pasteur v Curie.
W77-09864 1020 5D

Energy Usage and Recovery in Sludge Disposal Part 1,
W77-10632 1021 5D

Waste Water Organic Residue Detoxification--By Two Stage Thermal Treatment and Separation at Specified Temp.
W77-11687 1023 5D

Process and Apparatus for the Treatment of Water-Containing Substances and Application of this Method for the Preparation of Pasteurized Dried Sludge,
W77-12946 1024 5D

HEATED DISC

A Concise Method for Analyzing the Ice-Melting Performance of a Heated Disc,
W77-02470 1005 2C

HEATED WATER

Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Hygienic Aspects of the Central Water Heating, (In Russian),
W77-01559 1004 5G

The Economics of Waste Water-Aquaculture Systems,
W77-02069 1004 5G

Soil Warming with Power Plant Waste Heat in Greenhouses,
W77-02526 1005 5G

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

Effect of Konakova State Regional Electric Power Station Heated Water Discharge on the Bream Growth in the Ivankov Reservoir, (In Russian),
W77-04589 1009 5C

Discharge of Treated Wastewater in Lakes, (In German),
W77-04595 1009 5B

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

A Scientific and Legal Look at Thermal Pollution,
W77-07256 1015 6E

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Hydrothermal Processes in the Atlantic Ocean Crust, 26 Degrees N,
W77-08681 1018 2K

Some Geochemical Problems in the Utilization of Geothermal Waters,
W77-08687 1018 5B

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

Important Geothermal Sites in Greece, on the Base of Thermomineral Spring Layings, and the Possibilities of Their Exploitation and Utilisation,
W77-08690 1018 4B

Total Energy Use in an Urban-Agricultural Power Plant Complex,
W77-08691 1018 5G

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

Planktonic Ciliates in the Ivan'kovo Water Reservoir, (In Russian),
W77-10010 1020 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Problems of Heat Storage in Aquifers,
W77-10332 1021 5B

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

Waste Heat Employment for Accelerated Rearing of Coho Salmon,
W77-11664 1023 5C

Power Plants and Plankton,
W77-12039 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

HEATED WATER POLLUTION

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

HEATING

Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

Water Well Journal Funds Heat Pump Research.
W77-12676 1024 8C

Process and Apparatus for the Treatment of Water-Containing Substances and Application of this Method for the Preparation of Pasteurized Dried Sludge,
W77-12946 1024 5D

HEATING OIL

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

HEATING WATER

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

HEAVY METAL

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

HEAVY METAL GEOCHEMISTRY

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

HEAVY METAL TRANSPORT

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

HEAVY METALS

Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

Don't Waste Waterweeds,
W77-00592 1002 5D

Chemical and Biological mobilization of Heavy Metals from Estuarine Sediments,
W77-00839 1002 5C

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

Heavy Metal Adsorbent Process,
W77-01226 1003 5D

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

Workshop on Toxicity to Biota of Metal Forms in Natural Water.
W77-01295 1003 5C

Complexation of Metals in Natural Water,
W77-01296 1003 5C

Structure-Activity Relations and the Toxicity of Trace Elements to Aquatic Biota,
W77-01299 1003 5C

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Aspects of Heavy Metals Toxicity in Fresh Waters,
W77-01306 1003 5C

Potential Roles of Metal-Ligands in the Marine Environment,
W77-01308 1003 5B

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

Metal Enrichment of Sediments in Inland Waters - the Hartbeespoort Dam,
W77-01487 1003 5A

Treatment of Heavy Metals in Wastewater,
W77-01649 1004 5D

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Foamy Complex Formation for Removing and Recovering of Heavy Metal Ions in Dilute Solutions with N-Monodecanoyl Diethylenetriamine,
W77-01998 1004 5D

Water Hyacinths and Alligator Weeds for Removal of Silver, Cobalt, and Strontium from Polluted Waters,
W77-02037 1004 5G

Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Water Hyacinths and Alligator Weeds for Removal of Lead and Mercury from Polluted Waters,
W77-02450 1005 5G

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Modification of the Traditional Sequence for the Treatment of Wastewaters from Metal Finishing Installations,
W77-02762 1006 5D

Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

Concentrations of Copper, Iron, Lead, Nickel and Zinc in Freshwater Algal Blooms,
W77-02813 1006 5A

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Heavy Metals in Lakes of the Coeur d'Alene River Valley, Idaho,
W77-03207 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Reactions of Heavy Metals With Soils With Special Regard to Their Application in Sewage Wastes,
W77-03359 1007 5B

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

Heavy Metal Concentrations and Distributions in River Mouth Sediments Around the Great Lakes,
W77-03650 1008 5B

Heavy Metal Pollutants in the Sediments of the Rhone River,
W77-03651 1008 5B

Heavy Metals in the Lower Mississippi,
W77-03654 1008 5B

Microanalyse de L'Incorporation d'un Metal Lourd Dans les Ecailles d'un Poisson,
W77-03663 1008 5A

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

Distribution and Abundance of Heavy Metals in Finfish, Invertebrates and Sediments Collected at a Deep Water Disposal Site,
W77-04046 1008 5B

Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

Distribution of Heavy Metals in Tissues of the Common Seal,
W77-04059 1008 5C

Mercury in Tissues of Mussel Off Southern California,
W77-04060 1008 5C

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

Heavy Metal Levels in Suspended Particulates, Biota, and Sediments of the St. Croix Estuary in Maine,
W77-04176 1009 5B

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Hydrology and Water Quality in the Central Kentucky Karst: Phase I,
W77-04602 1010 5B

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

The Highway as a Source of Water Pollution: An Appraisal with the Heavy Metal Lead,
W77-05452 1011 5B

Determination of Harmful Heavy Metals in Plating Waste Waters (Mekki haisui chu no yugaisei kinzoku no teiryo),
W77-05507 1011 5A

Electrolytic Purification of Industrial Effluents-for Removal of Heavy Metals, Oil, Etc.,
W77-05509 1011 5D

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Effects of Municipal Compost and Nitrogen Fertilizer on Selected Soils and Plants,
W77-06146 1013 5C

Effects of Sewage Sludge Composition, Application Rate, and Lime Regime on Plant Availability of Heavy Metals,
W77-06175 1013 5C

The Treatment of Waste Waters with Peat Moss,
W77-06220 1013 5D

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Nonpoint Sources and Planning for Water Pollution Control,
W77-06461 1013 5B

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

Heavy Metals in Macroinvertebrates and Fish from the Lower Medway Estuary, Kent,
W77-06790 1014 5C

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Accumulation of Heavy Metals in Soils from Extended Waste Water Irrigation,
W77-07049 1014 5B

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Uptake and Accumulation of the Nickel Ion by Mytilus edulis,
W77-07198 1015 5C

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

Large-Scale Reverse Osmosis Processing of Metal Finishing Rinse Waters,
W77-07207 1015 5D

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

Mercury in Water, a Bibliography, Volume 3,
W77-07605 1016 5A

Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume 4, (Analytical Methods for Sewage Sludge Analysis),
W77-07614 1016 5A

Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Organic Matter and Heavy Metal Uptake,
W77-07870 1016 5E

A Survey of Cadmium Occurrence and Concentration in Fish from Eleven Major Reservoirs in South Carolina,
W77-08192 1017 5A

Chelating Agent Analysis by High Speed Liquid Chromatography,
W77-08286 1017 5A

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Development of a Column Chromatography Method for Field of Pre-Concentration of Trace Metals with Application to the Haw-Cape Fear Rivers, N.C.,
W77-08299 1017 5A

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-08623 1018 5D

Heavy Metal Tolerance of Marine Phytoplankton. III. Combined Effects of Copper and Zinc Ions on Cultures of Four Common Species,
W77-08692 1018 5C

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

Suitability of New England Soils in Accepting Waste Effluents, Phase II,
W77-09064 1018 5E

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Preliminary Investigation of Benthic Resources at Deepwater Dumpsite 106,
W77-09252 1019 5C

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 1.
W77-09259 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 2,
W77-09260 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 3.
W77-09261 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 4.
W77-09262 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 5.
W77-09263 1019 5A

Lead Effects on Several Enzymes and Nitrogenous Compounds in Soybean Leaf,
W77-09280 1019 5C

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Correction of 'Tube Contribution' Interference in the Determination of Heavy Metals by X-Ray Spectroscopy Using the 'Additions Technique',
W77-09292 1019 5A

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Metals in the Aqueous Effluents from Municipal Incinerators and an Incinerator-Residue Processing Plant,
W77-09600 1019 5A

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

Heavy Metal Enrichment in Mine Drainage: I. The Rustenburg Platinum Mining Area,
W77-10199 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Heavy Metals in the Gastropod Mollusc Haliotis Tuberculata (L.),
W77-10256 1021 5C

Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

Reactions of Metal Ions at Surfaces of Hydrous Iron Oxide,
W77-10566 1021 2K

Activity of Intestinal Aryl Hydrocarbon Hydroxylase in Guinea Pigs Fed High Element Containing Sludge-Grown Cabbage,
W77-10576 1021 5C

Removal of Heavy Metal Ions from Waste Solutions by Contact with Agricultural Byproducts,
W77-10714 1021 5D

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

Toxic Metals in Ground Water of the Front Range, Colorado,
W77-10853 1022 5A

Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part II - Effects on Respiration Rate,
W77-11359 1022 5C

Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

Interfacial Reactions and the Fate of Heavy Metals in Soil-Water Systems,
W77-11524 1023 5B

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

Heavy Metal Enrichment in Mine Drainage 2. The Witwatersrand Goldfields,
W77-11544 1023 5C

Metal Enrichment of Sediments in Inland Waters - The Jukskei and Hennops River Drainage Systems,
W77-11578 1023 5B

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Sludge Handling.
W77-11710 1023 5E

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Solubility and Availability of Cadmium in Cadmium-Sludge Amended Soil,
W77-12144 1023 5B

Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

Metals in the Water, Sediments and Biota of the Haw and New Hope Rivers, North Carolina,
W77-12254 1024 5A

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

Heavy-Metal Pollution of Elbe River Sediments, (In German),
W77-12978 1024 5A

HEAVY MINERAL DISTRIBUTION
Relationships Between Sand Input from Rivers and the Composition of Sands from the Beaches of Southern California,
W77-03324 1007 2L

HEAVY MINERALS
Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

HEINZ BODY HEMOLYTIC ANEMIA
Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

HELE-SHAW MODELS
Periodic Solutions of a Nonlinear Diffusion Equation Used in Groundwater Flow Theory: Examination Using a Hele-Shaw Model,
W77-04761 1010 2F

HELIUM
Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

The Helium Isotopes in Thermal Fluids,
W77-08680 1018 5B

HELIX ASPERSA
The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

HELL'S CANYON DAM
Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

HELLS CANYON
Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

HELMINTHIC INFECTIONS
Protozoan and Helminthic Infections of the Intestines of Humans in the Inyanga Area of Rhodesia,
W77-10076 1020 5G

HELMINTHS
Helminth Fauna of Beloniform Fish, (In Russian),
W77-09403 1019 2I

HEMATOCRIT
The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

HEMATOLOGIC CHANGES
Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

HEMATOLOGICAL INDICES
Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

HEMATOLOGY
Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Hematology of Juvenile Striped Bass, Morone Saxatilis (Walbaum), Acclimated to Different Environmental Conditions,
W77-07400 1015 5C

Seasonal Changes in Hematology of Rainbow Trout, Salmo Gairdneri,
W77-07403 1015 5C

HEMICENTROTUS
Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

HEMISPHERICAL ROUGHNESS ELEMENTS
Free Surface Flow in a Channel of Large Relative Roughness,
W77-00649 1002 2E

HEMOGLOBIN
Seasonal Changes in Hematology of Rainbow Trout, Salmo Gairdneri,
W77-07403 1015 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

HEMOLYSIS
The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

HEMOPOIETIC TISSUE
Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

HEMOSTATIC PARAMETERS
Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

HEPATIC ARYL HYDROCARBON HYDROXYLASE
Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

HEPATIC GROWTH
Does Low Environmental pH Influence Hepatic Growth in Fish,
W77-12203 1023 5C

HEPATITIS (HUMANS)
Serum Immunoglobulin Levels in White and Black Patients with Virus-A and Virus-B Hepatitis,
W77-11562 1023 5C

HEPATITUS
Progress of Studies on the Type A (Infectious) Hepatitis Virus in Water,
W77-11571 1023 5A

HEPATOPANCREATIC ALPHA-AMYLASE
Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

HEPTACHLOR
Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Water-Sediment Distribution of Chlorinated Hydrocarbon Pesticides in Various Environmental Conditions,
W77-03660 1008 5B

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

HEPTACHLOR EPIDEMIOLOGY
Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

HEPTACHLOR TOXICOLOGY
Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

HERBACEOUS PLANTS
The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

HERBICIDE DEGRADATION
Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

HERBICIDES
Influence of Water Treated Artificially with Herbicides on Honey Bee Colonies,
W77-00689 1002 5C

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Wasserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Environmental Poisons.
W77-01547 1003 5C

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Herbicides and Surface Irrigation-Do They Make A Team,
W77-02200 1005 3F

Herbigation,
W77-02201 1005 3F

Some Hygienic Problems Related to the Use of Herbicides of the 2,4-Dichlorophenoxyacetic Acid Group, (In Russian),
W77-02231 1005 5G

Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

Method for Determination of Glyphosate Residues in Natural Waters Based on Polarography of the N-Nitroso Derivative,
W77-02582 1006 5A

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Experimental Substantiation of the Maximum Allowable Concentration of Dimide in Water Bodies, (In Russian),
W77-02907 1006 5C

Practical Alternatives to 2,4,5-T for Chemical Control of Brush Along Drainage Ditches and General Watershed Use,
W77-03168 1007 5G

Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

Weed Control and the Environment, (In French),
W77-04041 1008 5B

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

Rapid Detection of Various Kinds of Herbicides in Water by the in Vivo Determination of Nitrate Reductase Activity in Lemna Minor, (In French),
W77-04261 1009 5C

Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

Data on Substantiation of the Maximum Allowable Concentration of Yalan in Water Bodies, (In Russian),
W77-04599 1009 5C

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Distributions of Water and Herbicide in Lakeland Sand During Initial Stages of Infiltration,
W77-05180 1011 5B

Diquat and Endothall: Their Fates in the Environment,
W77-05204 1011 5B

Ethanolamine Toxicity in Aquatic Invertebrates (In Romanian),
W77-05454 1011 5C

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Effect of Some Herbicides on Freshwater Algae,
W77-06277 1013 5G

Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

Study on the Herbicidal Properties of Benthiocarb; Factors Affecting Herbicidal Activity and Its Behavior in Soil, (In Japanese),
W77-07387 1015 5B

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

Residues of Dichlobenil in Irrigation Water,
W77-09287 1019 5B

Picloram Degradation in Soils as Influenced by Soil Water Content and Temperature,
W77-09644 1020 5B

The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Destruction of Vegetation on Dams of the Gorky Hydroelectric Power Plant with Herbicides,
W77-10059 1020 4A

Effect of Herbicides on Photosynthetic Electron Transport and on the Growth of the Alga Scenedesmus Quadricauda,
W77-10143 1021 5C

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Reduction of 2, 4-D Load in Surface Runoff Down a Grassed Waterway,
W77-10323 1021 5G

HERBICIDES

Herbicide Transport in Soil Under Center Pivot Irrigation Systems,
W77-10366 1021 5B

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

Application of Herbicides through a Microjet Irrigation System,
W77-11558 1023 3F

Distribution and Degradation of Dinitroaniline Herbicides in an Aquatic Ecosystem,
W77-12032 1023 5B

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Weed Management Tool Herbigation for Irrigated Cropland,
W77-12515 1024 3F

HERBIGATION

Herbigation,
W77-02201 1005 3F

Weed Management Tool Herbigation for Irrigated Cropland,
W77-12515 1024 3F

HERBIVORES

Biological Aquatic Weed Control by Fish in the Lower Sonoran Desert of California,
W77-11423 1022 4A

HERPESVIRUS

Evaluation of Potable Water as a Vehicle of Transmissibility and Viability for Herpesvirus,
W77-11935 1023 5B

HERRING

Brain Growth of Young Herring and Trout,
W77-04546 1009 2I

The Possible Density-Dependence of Larval Mortality and Adult Mortality in Fishes,
W77-05829 1012 2L

Effects of Benzene (A Toxic Component of Petroleum) on Spawning Pacific Herring, Clupea harengus pallasi,
W77-07137 1015 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

HERRING-BONE PATTERNS

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

HERRING GULLS

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

HERRINGS

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Trends of PCB and DDT in Fish and Aquatic Birds,
W77-03677 1008 5B

The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Development of the Respiratory System in Herring and Plaice Larvae,
W77-04548 1009 2I

Effects of Cadmium on Development and Survival of Herring Eggs,
W77-04554 1009 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

Seasonal Fluctuations in the Abundance of the Larvae of Mackerel and Herring in the Northeastern Atlantic and North Sea,
W77-05834 1012 2L

Vertical Migrations of Larvae of the Atlanto-Scandian Herring (Clupea Harengus L.),
W77-05842 1012 2L

Chemical Changes During Growth and Starvation of Herring Larvae,
W77-05847 1012 5C

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

HETEROCYCLIC COMPOUNDS

The Barrier Role of Water Treatment Installations with Respect to Certain Heterocyclic Compounds, (In Russian),
W77-02240 1005 5F

HETEROGENEITY

Parameter Identification in an Inhomogeneous Medium with the Finite-Element Method,
W77-00638 1002 2F

HETEROMORPHIC DEVELOPMENT (INSECTS)

Heteromorphic Development of Aedine Mosquitoes Reared at Abnormal Temperatures,
W77-03047 1006 5C

HETEROPNEUSTES-FOSSILIS

Effect of Yeast and Cobalt Chloride in Increasing Survival Rate of Hatchlings of Heteropneustes Fossils (Bloch),
W77-00632 1002 2I

HETEROSIGMA-SP

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

Studies on the Mechanisms of Red Tide Occurrence in Hakata Bay: II. General Features of Red Tide Flagellate, Heterosigma sp., (In Japanese),
W77-10740 1021 5C

HETEROTERMES-AUREUS

Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

HETEROTROPHIC BACTERIA

Distribution of Nitrifying and Heterotrophic Microorganisms in Cutover Peats,
W77-11651 1023 5C

HETEROTROPHIC MICROORGANISMS

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

HETEROTROPHIC PRODUCTION

Planktonic Microbial Heterotrophy: Its Significance to Community Biomass Production,
W77-07993 1016 5C

HETEROTROPHIC UPTAKE

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

HETEROTROPHS

Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

HETEROXENIA FUSCESCENS

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

HEWITT CREEK (IA)

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

HEXACHLOROBENZENE
Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

HEXACHLOROBUTADIENE
Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

HEXADECANE
Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

HEXADECANE DECOMPOSITION
Thermal Stress for Hexadecane Decomposition in Seawater of a Natural Environment,
W77-00876 1002 5C

HEXAVALENT CHROMIUM
Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

HEXOBARBITAL
The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

HEXOSE MONOPHOSPHATE SHUNT
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

HIERARCHICAL APPROACH
Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

HIERARCHICAL GOAL PROGRAMMING
An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

HIERARCHICAL MODELING
Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

HIERARCHICAL MODELS
Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

HIERARCHICAL OPTIMIZATION TECHNIQUE
Optimization of Water Pumping Costs by Hierarchical Methods,
W77-05245 1011 6C

HIGGINS BRANCH (TX)
Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

HIGH FREQUENCY FURROW IRRIGATION
Analysis of High Frequency Furrow Irrigation,
W77-12539 1024 3F

HIGH FREQUENCY IRRIGATION
Yields and Sugar Content of Sugarbeets as Affected by Deficity High-Frequency Irrigation,
W77-11966 1023 3F

HIGH GRADIENT MAGNETIC SEPARATION
High Gradient Magnetic Separation of Food Processing Wastewater,
W77-07852 1016 5D

Magnetic Separation of Soluble Organic Pollutants from Water,
W77-12255 1024 5D

HIGH GRADIENT MAGNETIC SEPARATORS
Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

HIGH-GRADIENT STREAMS
Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

HIGH PLAINS COOPERATIVE EXPERIMENT
The 1974 Skywater Workshop,
W77-05976 1012 3B

HIGH PLAINS (TX)
The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

HIGH PLAINS (US)
Aerosol over the High Plains of the United States,
W77-09225 1019 5A

HIGH PRESSURE VALVES
Evolution of Multijet Sleeve Valve,
W77-10117 1021 8C

HIGH QUALITY EFFLUENTS
Proceedings, Technology Transfer Seminar on High Quality Effluents,
W77-07330 1015 5D

HIGH RATE FILTERS
High Rate Filter at Rugby.
W77-11723 1023 5D

HIGH SEAS
State v. Sieminski (State's Right to Regulate Scallop Fishing in the High Seas).
W77-06566 1013 6E

HIGH STRENGTH CONCRETE
Concrete Properties at Ocean Depths,
W77-11779 1023 8F

HIGH VACUUM
The Effects of High Vacuum on Fish,
W77-07421 1015 5C

HIGH WATER MARK
Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Tidal Boundaries in Florida,
W77-01093 1003 6E

Redevelopments on the Oceanfront,
W77-01100 1003 6E

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Freedom of Beach,
W77-03584 1007 6E

Nonlinear Flow of Wave Crests Past a Thin Pile,
W77-06515 1013 8B

The Navigability Concept in the Civil and Common Law: Historical Development, Current Importance, and Some Doctrines That Don't Hold Water,
W77-06553 1013 6E

Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

State of Florida V Florida National Properties, Inc. (Riparian Boundaries in Meandered, Fresh-Water Lakes).
W77-09577 1019 6E

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

HIGH WATER TABLE SOILS
A Water Management Model for High Water Table Soils,
W77-05983 1012 2G

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

HIGHWAY DEICING
An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

HIGHWAY DRAINAGE
Maryland Highway Drainage Study: Volume I - Summary Report,
W77-02490 1005 4C

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Maryland Highway Drainage Study: Volume VI - An Experimental Examination of the Subsurface Drainage of Roadways,
W77-02493 1005 4C

HIGHWAY EFFECTS
The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

HIGHWAY ICING
An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

HIGHWAY RELOCATION
Louisiana Environmental Society V Brinegar (Environmental Impact Statement as to Artificial Lake to be Bridged by Highway Construction).
W77-01045 1002 6E

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

HIGHWAYS
Circle Investment Co V City of Toledo (Effect of Changing Canal to Limited Access Highway on Abutting Landowners--No Access Required).
W77-01044 1002 6E

Evaluation of the Use of Salt Brine for Deicing Purposes,
W77-01639 1004 4C

Maryland Highway Drainage Study: Volume I - Summary Report,
W77-02490 1005 4C

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Maryland Highway Drainage Study: Volume VI - An Experimental Examination of the Subsurface Drainage of Roadways,
W77-02493 1005 4C

The Highway as a Source of Water Pollution: An Appraisal with the Heavy Metal Lead,
W77-05452 1011 5B

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Water Quality, Conduits, and Geometrics.
W77-12499 1024 8F

HILL REACTION
Effect of Herbicides on Photosynthetic Electron Transport and on the Growth of the Alga Scenedesmus Quadricauda,
W77-10143 1021 5C

HILLSLOPES
Hillslope Form and Climate,
W77-06314 1013 2J

HIMALAYAN REGION
Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

HIPLEX PROJECT
Aerosol over the High Plains of the United States,
W77-09225 1019 5A

HIPPOGLOSSINA-MACROPS
Diet of Hippoglossina Macrops (Steindachner) in Mejillones (Pisces, Bothidae), (IN Spanish),
W77-00502 1001 2L

HISARS
Development of a Hydrologic Information Storage and Retrieval System,
W77-08609 1018 7C

HISARS - Hydrologic Information Storage and Retrieval System - Reference Manual,
W77-08610 1018 7C

HISARS MANUAL
A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

HISTOLOGICAL OBSERVATIONS
Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

HISTOLOGY
Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

HISTOPATHOLOGY
Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

HISTORIC FLOODS
The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

Kishwaukee River Flood Plain Information, Winnebago County, Illinois.
W77-05288 1011 4A

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Floods in Louisiana, Magnitude and Frequency, Third Edition,
W77-06979 1014 2E

Apparent Regional Skew,
W77-07484 1015 2E

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

Flood Plain Information: Chadakoin River, Jamestown-Falconer, New York.
W77-11841 1023 4A

HISTORICAL IMPACTS
Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

HISTORY
Ownership on Navigable Waterbottoms--California Company V Price Revisited,
W77-01078 1003 6E

History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

Dynamics, Stock and Forecast of Fish Catches in Lakes of the Kura-Araks Lowland, (In Azerbaijani),
W77-01609 1004 5C

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

An Historical Sketch of Physical Oceanography in Canada,
W77-03759 1008 2L

Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

Water Resource Models: A Historical Summary,
W77-03925 1008 6A

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

The American Experience,
W77-05941 1012 6G

Historical and Geographical Evolution of Water Law and Its Role in the Management and Development of Water Resources,
W77-06536 1013 6E

Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

1776-1976: Notes on Water Quality Planning,
W77-07938 1016 5G

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

HOCKING RIVER (OH)
Flood Plain Information: Hocking River, Athens, Ohio.
W77-04211 1009 4A

HOGANS POND
Seasonal Changes of Planktonic Crustacea in Two Newfoundland Lakes,
W77-11417 1022 5C

HOGCHOKER
Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

HOGGARD MILL CREEK (NC)
Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

HOGS
Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Design Criteria for Swine Waste Treatment Systems,
W77-09394 1019 5D

HOLDING PONDS
Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

HOLLAND
Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

HOLLIDAY CREEK (TX)
Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

HOLLOMAN AIR FORCE BASE (N MEX)
Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

HOLLOW FIBERS (CELLULOSE-ACETATE)
Extraction of Soil Water Using Cellulose-Acetate Hollow Fibers,
W77-09967 1020 2G

HOLOMIXIS
Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

HOLOTHURIANS (PACIFIC)
Comparative Study of the Antifungal Activity of Triterpene Glycosides of Pacific Holothurians, (In Russian),
W77-09938 1020 2I

HOLSTON RIVER (TENN)
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

HOME GARDENS
Food Production Potential from Home Gardens,
W77-12623 1024 3F

HOMEOHYDRIC PLANTS
Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

HOMERUS AMERICANUS
Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

HOMOGENEITY
Evaporation and Advection I: Evaporation from Extensive Homogeneous Surfaces,
W77-03859 1008 2D

HONEY BEE COLONIES
Influence of Water Treated Artificially with Herbicides on Honey Bee Colonies,
W77-00689 1002 5C

HONEY LAKE VALLEY (CALIF)
Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

HONG KONG
Kowloon Sewage Treatment and Disposal,
W77-08573 1017 5D

Studies on Plover Cove Reservoir, Hong Kong III. A Comparison of the Species Composition of Diatom Floras on Different Substrates, and the Effects of Environmental Factors on Their Growth,
W77-12783 1024 5C

HONG KONG (LAMMA ISLAND)
Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

HONOLULU HARBOR
The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

HOOD ARROYO (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

HOOD CANAL SALMON HATCHERY (WASH)
Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

HOOD DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

HORIZONTAL RECESSION
Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

HORMIDIUM RIVULARE
Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

HORMONES
Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

HORSE CREEK (WYO)
Movement of Cobbles in a Gravel-Bed Stream During a Flood Season,
W77-12318 1024 2J

HORTICULTURAL CROPS
Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

HOSES
Hose or Pipe for Sprinkling or Irrigation,
W77-03864 1008 3F

HOSPITAL WASTEWATER
Reverse Osmosis Study on Must Wastewater Treatment,
W77-04646 1010 5D

HOSPITAL WASTEWATER REUSE
The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

HOSPITALS
Reverse Osmosis Study on Must Wastewater Treatment,
W77-04646 1010 5D

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

HOST-PARASITE INTERACTIONS
Effects of Simulated Rain Acidified With Sulfuric Acid on Host-Parasite Interactions,
W77-11542 1023 5C

HOST PLANTS
The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

HOT DESERT EIS AREA (UTAH)
Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

HOT DRY ROCK
Recovery of Energy from Fracture-Stimulated Geothermal Reservoirs,
W77-12680 1024 8E

Hot Dry Rock: Widespread But Invisible,
W77-12681 1024 8E

HOT MINERAL WATER
The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

HOT SPRINGS
Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

Important Geothermal Sites in Greece, on the Base of Thermomineral Spring Layings, and the Possibilities of Their Exploitation and Utilisation,
W77-08690 1018 4B

HOT-WIRE ANEMOMETER
The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

HOURLY CUMULATIVE RAINFALL
Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

HOUSATONIC RIVER (MASS)
Environmental Impact Assessment, Water Quality Analysis, Housatonic River,
W77-01957 1004 5G

HOUSEHOLD WATER CONSERVATION ALTERNATIVES
An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

HOUSTON-BAYTOWN AREA (TEX)
Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

HOUSTON-GALVESTON AREA (TEXAS)
Fault Control of Subsidence, Houston, Texas,
W77-08662 1018 4B

HOUSTON SHIP CHANNEL/GALVESTON BAY (TEX)
Water Pollution Control Act of 1972 Regional Impacts Houston Ship Channel/Galeston Bay.
W77-04309 1009 5G

HOUSTON SHIP CHANNEL (TEX)
Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

HOUSTON (TEX)
Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

HOVERCRAFT
Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

HOWE SOUND
Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

HOWE SOUND (BRITISH COLUMBIA)
Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

HS FLUMES
A Note on Plexiglas HS Flumes,
W77-05965 1012 5A

HUDSON BAY
Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

HUDSON BAY (CANADA)
Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

HUDSON BAY LOWLANDS
A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

HUDSON ESTUARY
An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

HUDSON RIVER
Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Reproduction of White Perch in the Lower Hudson River,
W77-03058 1006 2L

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

An X-Z Hydraulic/Thermal Model for Estuaries,
W77-05358 1011 5B

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Polychlorinated Biphenyls in the Hudson River (Hudson Falls-Fort Edward, New York State),
W77-12853 1024 5B

HUDSON RIVER ESTUARY
Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

HUDSON RIVER (NEW YORK)
Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

HUMAN CHORIONIC GONADOTROPIN
Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

HUMAN DISEASE
Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

HUMAN DISEASES
Hygienic Aspects of Microbial Contamination of Water Basins, (In Russian),
W77-00454 1001 5B

Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

Studies on the Incidence of Encysted Larvae of Paragonimus Mivazakii Kamo Et Al, 1961 in the Crab Potamon Dehaani in Shizuoka Prefecture, Japan, (In Japanese),
W77-01036 1002 5C

The Epidemiology of Reclaimed Water,
W77-01492 1003 5D

Environmental Factors of Human Leukemias, (In Polish),
W77-01562 1004 5C

The Effects of Water Pollution from Non-Point Sources as It Relates to the Health of Man,
W77-02058 1004 5G

Water Hardness and Incidence of Malignant Neoplasms Among the Population, (In Russian),
W77-02384 1005 5F

Trace Elements in the Environment of Some Goiter Regions of the Tashkent Oblast, (In Russian),
W77-02388 1005 5G

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
W77-02845 1006 5G

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Risk of Communicable Disease Infection Associated with Waste Water Irrigation in Agricultural Settlements,
W77-03485 1007 5C

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Environmental Contaminants Inventory Study No. 3, the Production, Use and Distribution of Lead in Canada,
W77-09221 1019 5B

Protozoan and Helminthic Infections of the Intestines of Humans in the Inyanga Area of Rhodesia,
W77-10076 1020 5G

Epidemics of West Nile and Sindbis Viruses in South Africa with Culex (Culex) Univittatus Theobald as Vector,
W77-11547 1023 5C

Serum Immunoglobulin Levels in White and Black Patients with Virus-A and Virus-B Hepatitis,
W77-11562 1023 5C

Progress of Studies on the Type A (Infectious) Hepatitis Virus in Water,
W77-11571 1023 5A

HUMAN EXPOSURE

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

HUMAN HEALTH

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

HUMAN INFLUENCE

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

HUMAN INFLUENCE INDEX

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

HUMAN PATHOLOGY

Behavior of Benzidine and Other Aromatic Amines in Aerobic Wastewater Treatment,
W77-11733 1023 5B

HUMAN POPULATION

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

The Dosimetric Implications of Releases to the Aquatic Environment from the Nuclear Power Industry,
W77-04511 1009 5C

Life At The Desert's Edge.
W77-09305 1019 4C

A Population Profile of the Lower Sheyenne River Basin in North Dakota,
W77-12272 1024 6B

HUMAN POPULATIONS

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

HUMIC ACIDS

Dynamics of Microbially Produced Fulvic Material in Aquatic Environments Relative to Different Conditions of Temperature and pH,
W77-03664 1008 5C

Measurement of Complexation Properties of Humic and Fulvic Acids in Natural Waters with Lead and Copper Ion-Selective Electrodes,
W77-05679 1012 5A

Interactions of Cupric Ion with Humic Acid,
W77-07104 1015 5B

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Detection of Phosphate Adsorption onto Coal Humic Acids,
W77-08294 1017 5A

The Role of Humic Acids in the Uptake and Release of Mercury by Freshwater Sediments,
W77-09615 1020 5B

HUMID AREAS

High-Frequency Irrigation for Water Nutrient Management in Humid Regions,
W77-10278 1021 3F

HUMID CLIMATES

Diurnal Soil Water Regime in the Tilled Plow Layer of a Warm, Humid Climate,
W77-11826 1023 2G

HUMIDITY

Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

Investigations on the Humidity and Infiltration Relations in Soils with Different Subsoil Water Conditions with and Without Crops, (In German),
W77-06541 1013 2G

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Leaf Conductance Response to Humidity and Water Transport in Plants,
W77-11943 1023 3F

HUMUS

Dynamics of the Composition and the Qualities of Water-Soluble Organic Substance During the Composting of Clover and Timothy Roots, (In Russian),
W77-00062 1001 5B

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

Horsham's Sewage Works,
W77-08595 1017 5D

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

Simulation of Plant Growth by Humic Substances,
W77-09963 1020 2I

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

HUNGARY

Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

The Effect of Agriculture on the Surroundings of Lake Balaton,
W77-02776 1006 5B

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

Stochastic Analysis of Short-Time Rainfalls,
W77-07671 1016 2B

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

Dispersion Measurement on the Danube,
W77-09040 1018 5B

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

Problems of Applying the Conceptual Model Developed for the Flat Catchments of Hungary,
W77-12087 1023 2A

HUNGARY (MARTELY)

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

HUNTING

United States v Brown (State Waters Within National Parks Subject to Federal Regulations).
W77-11185 1022 6E

HURRICANE AGNES

Environmental Impact of Stream Channelization,
W77-00375 1001 6G

Disaster Recovery Planning Report.
W77-05293 1011 6F

A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

Evaluation of the Environmental Impact to Appalachian Pennsylvania Waters of the 1972 Flood and Subsequent Stream Channelization with Future Policy Recommendations.
W77-06676 1014 4A

Predictability of Effects of a Severe Local Storm in Pennsylvania,
W77-07369 1015 2B

HURRICANE AGNES (1972)

Flood Management Study.
W77-06952 1014 6F

HURRICANE CAMILLE

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

HURRICANE ELOISE

Surge Effects from Hurricane Eloise,
W77-06085 1012 2L

HURRICANES

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

A Study of Various State Flood Plain Regulations in an Effort to Emphasize Florida's Need to Exact Comprehensive Planning and Land use Controls, Which are Designed to Afford Protection Against Hurricane Damage,
W77-01095 1003 6E

Redevelopments on the Oceanfront,
W77-01100 1003 6E

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Economics of Storm Protection,
W77-02672 1006 6F

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Surge Effects from Hurricane Eloise,
W77-06085 1012 2L

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

United States and Mexico: Weather Technology Water Resources and International Law,
W77-11173 1022 6E

HURST PHENOMENON

Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

HURST'S LAW

A Simple Stochastic Modelling of Hurst's Law,
W77-07666 1016 2E

HYACINTH BEANS

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

HYBRID COMPUTERS

Use of Hybrid Computer Model in Resource Planning,
W77-03523 1007 6A

Hybrid Computer Model of St. Venant Equations,
W77-03832 1008 2E

Hybrid Computer Analysis of a Combined Surface Water--Groundwater System,
W77-06729 1014 4B

HYDRA

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

HYDRATES

Heterogeneous Sensitized Decomposition of Water with Sunlight,
W77-02819 1006 2K

Solubility and Solubility Product of Dicalcium Phosphate Dihydrate in Aqueous Solutions and Soil Solutions,
W77-09979 1020 2G

HYDRATION

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

Quantum-Mechanical Studies of Environmental Effects on Biomolecules: I. Hydration of Formamide,
W77-11645 1023 2K

Release of Soil Potassium on Wetting and Drying,
W77-11982 1023 2G

HYDRAULIC BREAKWATERS

Partial Wave Damping in Pneumatic Breakwaters,
W77-02455 1005 8B

HYDRAULIC CONDUCIVITY

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-04396 1009 2G

HYDRAULIC CONDUCTIVITY

Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

Method of Simultaneous Determination of Water Conductivity of Soils and Plants, (In Russian),
W77-00512 1001 2I

Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Hysteretical Models for Prediction of the Hydraulic Conductivity of Unsaturated Porous Media,
W77-05344 1011 2G

Rapid Determination of Unsaturated Hydraulic Conductivity in Tilled and Untilled Loess Soil,
W77-05352 1011 2G

Persistence of Subsoil Compaction in a Mollisol,
W77-05353 1011 2G

Error Propagation in Determining Hydraulic Conductivities from Successive Water Content and Pressure Head Profiles,
W77-05434 1011 2G

A Method for Computing and Comparing Upward Flow of Water in Soils From a Water Table Using the Flux/Unsaturated Conductivity Ratio,
W77-05533 1011 2G

Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

Simplified Techniques for Determining Water Conducting and Water Storage Properties of Soils,
W77-05853 1012 2G

Suprapermafrost Water,
W77-06630 1014 2C

Horizon Hydraulic Conductivities Determined In Situ for the Wilderness, Mexico and Menfro Soils and Used to Predict Soil Water Content,
W77-07103 1015 2G

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

Scaling Field-Measured Soil Hydraulic Properties Using a Similar Media Concept,
W77-09350 1019 2G

Use of the Green-Ampt Equation with Variable Conductivity,
W77-09430 1019 2G

Seepage from Small Earth Dams,
W77-09932 1020 8D

Steady State Bi-Level Subsurface Drainage Theory for Soils of Varying Hydraulic Conductivity,
W77-10961 1022 2F

The Hydraulic Resistance of Subsurface Drains as Influenced by Certain Filter Materials,
W77-12835 1024 4A

HYDRAULIC CONTROL FORMULA
Evaluation of Activated Sludge Control Techniques Through Pilot Plant and Computer Analyses,
W77-00157 1001 5D

HYDRAULIC DESCRIPTIONS SEA GRANT PROGRAM
Oregons's Estuaries,
W77-02593 1006 2L

HYDRAULIC DESIGN
Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

Exact Solution of Gradually Varied Flow,
W77-03085 1007 8B

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

Design Proposals for Submersible Sewage Lift Stations,
W77-09839 1020 8C

HYDRAULIC EFFICIENCY
Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

HYDRAULIC ENGINEERING
Expansion of the Range of Some Fish Species in Connection with Hydraulic Engineering Construction on the Volga and Acclimatization Works, (In Russian),
W77-08715 1018 8I

Water Treatment Plant Design is Cost-Effective,
W77-11742 1023 5D

HYDRAULIC EQUIPMENT
Sewage System,
W77-00561 1002 5D

Pump Handbook.
W77-04114 1009 8G

Liquid Jet Eductors, The 'Pumps' with No Moving Parts,
W77-08671 1018 8C

Avoiding the Perils of Cavitation,
W77-08674 1018 8C

HYDRAULIC FRACTURING
100 Mesh Sand Improves Hydraulic Frac Results.
W77-08312 1017 4B

HYDRAULIC GATES
Clamshell-Type Hydraulic Flow Control Gate,
W77-12817 1024 8C

HYDRAULIC GEOMETRY
Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

HYDRAULIC GRADIENT
Exact Solution of Gradually Varied Flow,
W77-03085 1007 8B

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Head Gradient Control in Aquifers Used for Fluid Storage,
W77-12800 1024 4B

HYDRAULIC HEAD
A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

HYDRAULIC JUMP
Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

Hydraulic Jumps and Waves at Abrupt Drops,
W77-07163 1015 8B

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

HYDRAULIC MACHINERY
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

Considerations for Electrical Design in Sewage Lift Stations,
W77-04706 1010 8C

Sewage Ejectors Avoid Manual Unblocking of Pipes.
W77-09856 1020 8C

HYDRAULIC MODELS
Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

Model Study of the Drag Coefficient of a Streambed Particle,
W77-00816 1002 2J

Model for a Study,
W77-00971 1002 2L

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

Model Materials Evaluation Sand Tests; Hydraulic Laboratory Investigation,
W77-02938 1006 8G

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Stability of Rubble-Mound Breakwater Lahaina Harbor, Hawaii; Hydraulic Model Investigation,
W77-02940 1006 8B

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Ice Flushing from St. Lawrence Seaway Locks; Hydraulic Model Investigation,
W77-02953 1006 8B

B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

Grays Harbor Estuary, Washington, Report 6, 45-FT MSL (40-FT MLLW) Navigation Channel Improvement Studies; Hydraulic Model Investigation,
W77-02963 1006 8B

New Techniques and Materials for Constructing Hydraulic Models,
W77-02964 1006 8G

Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

A Stochastic Approach to Snowmelt Runoff Forecasting,
W77-05323 1011 2C

Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

Energy Relations of Density-Current Flows: An Experimental Investigation,
W77-06317 1013 2J

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

A Transport Kinetic Concept for Ion Uptake by Plants, III. Test of the Concept by Results from Water Culture and Pot Experiments,
W77-09315 1019 2I

Stability of Rubble-Mound Breakwater Jubail Harbor, Saudi Arabia; Hydraulic Model Investigation,
W77-09984 1020 8B

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

Los Angeles and Long Beach Harbors Model Study; Report 4, Model Design,
W77-10016 1020 8B

North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Divide Cut Drainage Structures Tennessee-Tombigbee Waterway Mississippi and Alabama; Hydraulic Model Investigation,
W77-10046 1020 8B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

Role of WES in the Development of Hydrodynamic Watershed Models,
W77-12107 1023 2A

HYDRAULIC PROPERTIES

Computer Simulation Model of the Pleistocene Valleyfill Aquifer in Southwestern Essex and Southeastern Morris Counties, New Jersey,
W77-00865 1002 2F

Flume Studies with Fine and Coarse Sands,
W77-02976 1006 2J

Hydraulic Characteristics of the Piney Point Aquifer and Overlying Confining Bed Near Dover, Delaware,
W77-03331 1007 2F

Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Utilizing a Digital Model to Determine the Hydraulic Properties of a Layered Aquifer,
W77-06333 1013 2F

Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

Effects of Spatial Variability of Soil Hydraulic Properties in Water Budget Modeling,
W77-08825 1018 2G

Scaling Field-Measured Soil Hydraulic Properties Using a Similar Media Concept,
W77-09350 1019 2G

Hydraulic and Thermal Properties of a Sandy Soil as Influenced by Incorporation of Sewage Sludge,
W77-11236 1022 5B

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

HYDRAULIC SIMILITUDE

Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

HYDRAULIC STRUCTURES

Sewering The City of New York,
W77-00070 1001 5D

Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

Sewer Force Main Helps Solve Pollution Problem.
W77-00075 1001 5D

Kaministiquia Interceptor Sewer Completed in Thunder Bay.
W77-00076 1001 5D

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Test New Sewers with Low-Pressure Air,
W77-02329 1005 8G

Precast Segments Speed Installation of Thunder Bay Sewer,
W77-02330 1005 8F

Dilution and Design,
W77-02332 1005 5E

Plastic Lining Overcomes Rugged Terrain,
W77-02333 1005 8G

Emergency Repair of a Deep Storm Sewer Line,
W77-02350 1005 8G

Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

Discharge Computations at River Control Structures,
W77-02986 1006 4A

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

The California State Water Project Summary: 1974.
W77-06362 1013 8A

Seepage Under Structure on N Strata of Soil,
W77-08843 1018 2F

Design Proposals for Submersible Sewage Lift Stations,
W77-09839 1020 8C

HYDRAULIC SYSTEMS

Pumping Systems: The Simpler, The Better,
W77-06856 1014 8C

Control Functions at Coppermills Works.
W77-12433 1024 5D

HYDRAULIC TRANSFORM GRAPHS

Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

HYDRAULIC TURBINES

Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

Gas Turbine Gen-Sets for Sewage Treatment Standby.
W77-12442 1024 5D

HYDRAULIC VALVES

Control Functions at Coppermills Works.
W77-12433 1024 5D

HYDRAULICS

Functional Design of Sanitary Sewers,
W77-00068 1001 5D

Stochastic Considerations in Thunderstorm Modeling,
W77-00087 1001 2B

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

List of Papers, 1967/1975, (International Association for Hydraulic Research).
W77-00636 1002 10C

Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

Estuarine Pollution Control: Objectives and Priorities,
W77-02343 1005 5G

Partial Wave Damping in Pneumatic Breakwaters,
W77-02455 1005 8B

Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

Minimum Unit Stream Power and Fluvial Hydraulics,
W77-03080 1007 8B

Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

Hydrologic Engineering Methods for Water Resources Development, Volume 6, Water Surface Profiles,
W77-03105 1007 8B

Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

Solving an Interim Problem of Treatment Plant Overload,
W77-04701 1010 5D

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Computational Hydraulics: A Short Pathology,
W77-05797 1012 8B

Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

Parameter Study of Variables Affecting the Performance of a Hydraulic Pipeline Dredge Model,
W77-07346 1015 8D

Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

A Simple Stochastic Modelling of Hurst's Law,
W77-07666 1016 2E

Numerical Solution for Flow Under Sluice Gates,
W77-09012 1018 8B

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

Theoretical and Experimental Study of Flow Separation After a Sudden Increase in the Cross-Section of a Circular Pipe (Etude Theorique Et Experimentale D' Un Ecoulement Decolle En Aval D'Un Elargissement Brusque De Revolution),
W77-09034 1018 8B

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

HYDRAULICVALVES

Evolution of Multijet Sleeve Valve,
W77-10117 1021 8C

HYDRAZINE

Behavior of Hydrazine Compounds in Hard and Soft Water,
W77-03042 1006 5B

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

HYDRAZINE DEGRADATION

Hydrazine Degradation in Aquatic Systems,
W77-00879 1002 5C

HYDRILLA VERTICILLATA

Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes,
W77-10139 1021 2H

HYDRO-POWER

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

HYDRO-POWER SYSTEMS

Optimal Planning of Flows in Multi-Reservoir Hydro-Power Systems,
W77-06730 1014 4A

HYDRO-THERMAL SYSTEMS

Computer Applications to Achieve Optimum Economic Loading of Generating Plants,
W77-10288 1021 6A

HYDROBIA ULVAE

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

HYDROBIOLOGY
Bibliography of Soviet Literature on Freshwater Hydrobiology and Related Problems: 1974-1975 (Issue 19), (In Russian),
W77-02232 1005 2I

A Bibliography of Soviet Literature on Freshwater Hydrobiology and Related Problems for 1975: Part 20, (In Russian),
W77-05854 1012 5B

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W77-06134 1013 6G

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W77-06380 1013 5B

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W77-07402 1015 5C

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W77-07540 1015 2I

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

HYDROBIONTS
Effluents of Kraft Mills and Their Toxicity for Hydrobionts (Stochnye vody sul'fat-tsellyuloznykh zavodov i ikh toksichnost' dlya gidrobiontov)),
W77-09739 1020 5C

HYDROCARBON MEASUREMENT
Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

HYDROCARBON TRACES
Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

HYDROCARBONS
Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

HYDROCARBONS (NON-VOLATILE)
Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

HYDROCHEMICAL FEATURES
Hydrochemical Characteristics of the Orel River, (In Russian),
W77-02234 1005 5A

HYDROCHEMICAL ZONES
Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

HYDROCHLORIC ACID RECOVERY
The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

HYDROCRYLE
The Influence of Acrolein and Hydrocryle on the Development Dynamics of Aquatic Bacteria,
W77-06690 1014 5C

HYDRODYNAMIC DISPERSION
Non-Equilibrium Thermodynamics of Groundwater Flow Systems: Symmetry Properties of Phenomenological Coefficients and Considerations of Hydrodynamic Dispersion,
W77-07143 1015 2F

HYDRODYNAMIC LIFT
Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

HYDRODYNAMIC MODELS
Bay Springs Lake Water Quality Study,
W77-06087 1012 5B

HYDRODYNAMICS
Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

Numerical Models of Lake Currents,
W77-00722 1002 5B

Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

Hydrodynamic Model of the Great Bay Estuarine System,
W77-02667 1006 2L

Hydrodynamic Forces on Multiple Circular Cylinders,
W77-03081 1007 8B

Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Hydrodynamics of Large Lakes,
W77-05127 1011 2H

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

River Turbine,
W77-05660 1012 4A

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

Added Mass of Pile Group,
W77-09018 1018 8B

Transient Analysis of Phreatic Aquifers Lying Between Two Open Channels,
W77-09026 1018 2F

Modeling the Hydrodynamic Effects of Large Man-Made Modification to Lakes,
W77-09177 1019 5B

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

Hydrodynamic Dispersion in Porous Materials,
W77-10131 1021 2G

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

HYDROELASTICITY
Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

HYDROELECTRIC DAMS
Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

HYDROELECTRIC PEAKING
The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

HYDROELECTRIC PLANTS
South Africa's Own Snowy Mountain Scheme,
W77-01374 1003 8C

Evaluation Report: Water Resources Appraisal for Hydroelectric Licensing. Dayton Development, Project No. 287, Fox River, Wisconsin and Illinois.
W77-01511 1003 6F

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Marshall Ford Dam and Reservoir, Colorado River, Texas; Revision of Flood Control Regulations.
W77-04369 1009 6E

Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

State of North Carolina V Federal Power Commission (Rivers Designated for Potential Addition to the System Under the Wild and Scenic Rivers Act).
W77-06069 1012 6E

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

Hydro-Electric Development of the Tugela River,
W77-10073 1020 8C

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

HYDROELECTRIC POWER
Harnessing the Cunene's Might.
W77-01376 1003 8C

Power and Water for South West Africa,
W77-01382 1003 3E

The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

Evaluation Report: Water Resources Appraisal for Hydroelectric Licensing. Dayton Development, Project No. 287, Fox River, Wisconsin and Illinois.
W77-01511 1003 6F

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Pumped-Storage in the Pacific Northwest, An Inventory.
W77-08224 1017 2H

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

HYDROELECTRIC POWER LICENSING
Appropriation of Water for Power (Hydroelectric Power Projects).
W77-08395 1017 6E

HYDROELECTRIC POWER PLANTS
The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

Unintentional Introductions of Fishes Via Hydroelectric Power Stations and Centrifugal Pumps,
W77-10225 1021 8I

HYDROELECTRIC POWERPLANTS
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

HYDROGEN BONDING
Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

HYDROGEN FLUORIDE
Diffusion Cell for Isolation of Hydrogen Fluoride from the Analyzed Sample Determining Fluorine in Water, (In Russian),
W77-02105 1005 5A

HYDROGEN ION CONCENTRATION
Formation of Chemical and Biological Denitrification Products in Flooded Soil at Controlled pH and Redox Potential,
W77-00308 1001 2G

Hydrogen Ion Concentration in the Gastrointestinal Tract of Channel Catfish,
W77-01062 1002 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

Acid Precipitation,
W77-02800 1006 2B

Yield Response of Alfalfa Cultivars and Clones to Several pH Levels in Tatum Subsoil,
W77-03075 1006 3F

Dynamics of Microbially Produced Fulvic Material in Aquatic Environments Relative to Different Conditions of Temperature and pH,
W77-03664 1008 5C

A Scheme for Effective Control of Effluent pH,
W77-03802 1008 5D

Earthquake-Related Change of the Hydrogen Ion Concentration (pH) in Ground Waters,
W77-03990 1008 2K

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

Effect of pH on Some Water Treatment Unit Processes (Wplyw odczynu na niektore procesy oczyszczania wody),
W77-06189 1013 5D

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Reliable pH Measurement When Effluent Conditions Get Tough,
W77-08592 1017 5A

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

Accomodation of Daphnia pulex to Altered pH Conditions as Measured by Feeding Rate,
W77-09678 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Brown Trout (Salmo Trutta L.) Growth at Reduced PH,
W77-10227 1021 5C

Sodium Bicarbonate Provides PH Relief for Digester.
W77-10607 1021 5D

Ammonia Toxicity,
W77-10946 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

McAlpine Win Effluent Treatment Works Contracts.
W77-11667 1023 5D

Investigations on Precipitation from Various Locations in Norway 1965-71,
W77-11785 1023 2B

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

Does Low Environmental pH Influence Hepatic Growth in Fish,
W77-12203 1023 5C

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

HYDROGEN ION CONCENTRATIONS

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

HYDROGEN ION EXCHANGE

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

HYDROGEN IONS

Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

HYDROGEN PEROXIDE

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

HYDROGEN PEROXIDE TREATMENT (WASTE WATER)

Hydrogen Peroxide Subdues Waste Water Plant Problems.
W77-09858 1020 5D

HYDROGEN SULFIDE

Method of Wastewater Treatment,
W77-00574 1002 5D

Hydrogen Sulfide in Bottom Water Near a Sewage Sludge Dumping Site,
W77-00620 1002 5A

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: II. Reducing Calcium Precipitation and Sodium Hazard,
W77-01286 1003 5G

Studies on the Tolerance of the Guppy, Poecilia Reticulata (Peters), a Natural Enemy of Mosquito Larvae, to the Septic Pollution of Water, (In Japanese),
W77-02238 1005 5C

Effect of Hydrogen Sulfide on Development and Survival of Eight Freshwater Fish Species,
W77-04552 1009 5C

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

Biogenic Elements and Sulfate Reduction in Water Oil Carbonate Layer, (In Russian),
W77-07040 1014 5B

Mineralizing Microbial Activity in Lake Faro,
W77-07418 1015 5C

Gas Detectors Determine Health Hazards in Sewage Treatment.
W77-07880 1016 5A

Coal Distn. Waste Liquor Purificn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Sewers Under Attack: The Hydrogen Sulphide Problem,
W77-10548 1021 5D

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

HYDROGENIC PROCESSES

Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

HYDROGEOLOGICAL INVESTIGATION

Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

HYDROGEOLOGY

Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
W77-00850 1002 7C

Hydrogeology of a Drift Filled Bedrock Valley Near Lino Lakes, Anoka County, Minnesota,
W77-00860 1002 2F

Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

Hydrogeology of the Quaternary and Tertiary Formations Along the South Coast of the Algarve Portugal,
W77-01136 1003 2F

Hydrology and Chemistry of Ground Water in Puna, Hawaii,
W77-01628 1004 2F

Hydrogeology of a Cavernous Limestone Terrane and the Hydrochemical Mechanisms of its Formation, Mohawk River Basin, New York,
W77-02022 1004 2F

Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

Hydrogeologic Characteristics of the Missouri River Valley Flood Plain,
W77-02194 1005 2F

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains

Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

Hydrogeology of the Foremost Area, Alberta,
W77-05817 1012 4B

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

Brief Summary of the Hydrogeology of Bangladesh,
W77-06342 1013 4B

Hydrogeology of the Spring Waters with High F Content from the Surroundings of Tendurek Volcano, (In Turkish),
W77-06379 1013 5B

Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite,
W77-06975 1014 5B

14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

Limnologic-Geologic Excursion in the Territory of the Lower Erft River, (In German),
W77-07799 1016 5B

The Use of Skylab and LANDSAT in a Geohydrological Study of the Paleozoic Section, West-Central Bighorn Mountains, Wyoming,
W77-08063 1016 7B

Hydrogeological Investigations in the Pampa of Argentina,
W77-08064 1016 7B

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

Ground Water Recharge in Eastern Connecticut Based on Simulation Modeling,
W77-08344 1017 2F

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

Storage of Low-Level Radioactive Wastes in the Ground: Hydrogeologic and Hydrochemical Factors,
W77-09086 1018 5E

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

Recommendations for the Routine Recording of Borehole Data for Hydrogeological Purposes,
W77-10224 1021 4B

Characteristics of Aquifers in the Northern Uinta Basin Area, Utah and Colorado,
W77-10559 1021 2F

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

HYDROGLEN ION CONCENTRATION

An Improved Technique for Measuring Soil pH,
W77-09295 1019 2G

HYDROGRAPH ANALYSIS

U.S. Army Corps of Engineers Fourth Hydrographic Survey Conference, 5-6 November 1975,
W77-02937 1006 8B

Runoff Files for Flood Hydrograph Simulation,
W77-03748 1008 2E

Hydrograph Analysis: A Computerized Separation Technique,
W77-05117 1011 4A

On the Derivation of Linkage Equations for Laguerre Function Coefficients,
W77-05794 1012 2B

Community Self-Help River Forecast Procedures,
W77-06086 1012 4A

Stochastic Identification of Nonlinear Hydrological Systems,
W77-10431 1021 2A

The Investigation of Sewer Networks by Computer,
W77-11670 1023 5G

A Determinate Model for Runoff as a Nonlinear System,
W77-12099 1023 2E

Physico-Statistical Model of Rainfall Flood Formation and Determination of Its Parameters,
W77-12100 1023 2A

Mathematical Modelling of the Formation of River Runoff in Mountain Drainage Basins,
W77-12103 1023 2A

The Velocity Assumption Behind Linear Invariable Watershed Response Models,
W77-12105 1023 2A

Role of WES in the Development of Hydrodynamic Watershed Models,
W77-12107 1023 2A

HYDROGRAPH SYNTHESIS

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

HYDROGRAPHIC BASINS

Modele D'Amenagement et De Gestion D'un Grand Bassin Hydrographique, (A Model for the Design and Management of a Large Hydrographic Basin),
W77-01887 1004 4A

HYDROGRAPHIC SURVEYS

U.S. Army Corps of Engineers Fourth Hydrographic Survey Conference, 5-6 November 1975,
W77-02937 1006 8B

HYDROGRAPHS

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

Water and Sediment Routing from Small Watersheds,
W77-00790 1002 4D

Synthetic Design Hyetograph and Rational Runoff Coefficient,
W77-02135 1005 2E

HYDROGRAPHS

U.S. Army Corps of Engineers Fourth Hydrographic Survey Conference, 5-6 November 1975,
W77-02937 1006 8B

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Structural Relation Between Parametric and Stochastic Hydrology Models,
W77-07664 1016 2A

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

Natural Catchment Representation by a Series Model of Linear Channels-Part 2,
W77-12097 1023 2A

Deterministic and Stochastic Modelling of Floods in Mountain Regions,
W77-12104 1023 2A

Groundwater Levels in Nebraska, 1976,
W77-12393 1024 4B

Maryland Highway Drainage Study: Volume V. A Dimensionless Hydrograph for Estimating Storm Runoff from Urban Areas,
W77-12548 1024 4C

HYDROGRAPHY

U.S. Army Corps of Engineers Fourth Hydrographic Survey Conference, 5-6 November 1975,
W77-02937 1006 8B

Abyssal Hydrography, Nephelometry, Currents, and Benthic Boundary Layer Structure in the Vema Channel,
W77-04004 1008 2L

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Remote Sensing of Mississippi River Characteristics,
W77-08070 1016 7B

Hydrographic Surveying Turns to Electronics,
W77-09105 1019 7B

Recording River and Reservoir Water Depth,
W77-09106 1019 7B

Automated Hydrography for Channel Dredging,
W77-10316 1021 8B

HYDROLELECTRIC PLANTS

Water Power Companies--Eminent Domain,
W77-01117 1003 6E

HYDROLOGIC ASPECTS

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Annual Operation of a Coastal Groundwater Basin at a Prescribed Reliability Level,
W77-01882 1004 4B

Hydrologic Aspects of Space Investigations of the Earth's Surface (Literature Survey),
W77-03848 1008 7B

Bayesian Estimation of Frequency of Hydrological Events,
W77-07650 1016 2E

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Land Use Classification for Hydrologic Models using Interactive Machine Classification of Landsat Data,
W77-08074 1016 7B

Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

The Application of a Deterministic Model to a Semiarid Basin (Application du Modele a Discretisation Spatiale a un Bassin Versant Semi-Desertique),
W77-10424 1021 2A

Mathematical Simulation Models of Hydrological Processes in Turkey,
W77-10430 1021 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

HYDROLOGIC BOUNDARIES

Hydrologic Unit Map--1974, State of Iowa
W77-00425 1001 7C

Hydrologic Unit Map--1974, State of Wyoming.
W77-00429 1001 7C

Hydrologic Unit Map--1974, State of North Dakota.
W77-02031 1004 7C

Hydrologic Unit Map--1974, State of Colorado.
W77-03893 1008 7C

Hydrologic Unit Map--1974, State of Nebraska.
W77-05281 1011 7C

Hydrologic Unit Map--1974, State of New Mexico.
W77-05282 1011 7C

Hydrologic Unit Map--1974, State of Texas.
W77-08474 1017 7C

Hydrologic Unit Map--1974, State of Oklahoma.
W77-08475 1017 7C

Hydrologic Unit Map--1974, State of South Dakota.
W77-08476 1017 7C

Hydrologic Unit Map--1974, State of Kansas.
W77-08477 1017 7C

Hydrologic Unit Map--1974, State of Louisiana.
W77-11880 1023 7C

Hydrologic Unit Map--1974, State of Arkansas.
W77-11881 1023 7C

Hydrologic Unit Map--1974, State of Kentucky.
W77-11882 1023 7C

Hydrologic Unit Map--1974, State of Mississippi.
W77-11883 1023 7C

Hydrologic Unit Map--1974, State of Tennessee.
W77-11884 1023 7C

Hydrologic Unit Map--1974, State of Missouri.
W77-11885 1023 7C

HYDROLOGIC BUDGET

Accuracy of Evapotranspiration Rates Determined by the Water-Budget Method, Gila River Flood Plain, Southeastern Arizona,
W77-00868 1002 2D

Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

Hydrology of Lake County, Florida,
W77-02316 1005 4B

Water Management and Regulation of Water Use,
W77-03525 1007 6B

Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

Experiments with the Surface Heat and Water Budgets of the Canadian Middle North,
W77-03749 1008 2D

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Remote Sensing Inputs to Water Demand Modeling,
W77-08080 1016 7B

Computer Program for Reservoir-Water Budgets,
W77-08464 1017 4A

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Effects of Spatial Variability of Soil Hydraulic Properties in Water Budget Modeling,
W77-08825 1018 2G

Hydrology of Two Small Wetland Basins in Eastern Massachusetts,
W77-09336 1019 2A

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Model for Evaluating the Effects of Dikes on the Water and Salt Balance of Great Salt Lake, Utah,
W77-10563 1021 2H

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

HYDROLOGIC CYCLE

Natural and Human Influence on the Hydrological Cycle in South India,
W77-02777 1006 4D

Hydrologic Model of a Wetland Forest--Details of Construction,
W77-05115 1011 4D

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

HYDROLOGIC DATA

Similarity of the Mean Motion of Fluid Particles Dispersing in a Natural Channel,
W77-00371 1001 5B

Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

Water Resources Data for Alabama, Water Year 1975.
W77-00435 1001 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

Design of Surface Water Data Networks for Regional Information,
W77-01885 1004 7A

Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

Field Monitoring Equipment for Hydrological Studies in a Small Catchment,
W77-01936 1004 7B

Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 3. Basins from Maryland to York River.
W77-02307 1005 7C

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Index to Water Resources Data for Illinois,
W77-02990 1006 7C

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

Wet and Dry Periods of Annual Flow Series,
W77-03319 1007 2E

Water Resources Data for Nebraska, Water Year 1975,
W77-03885 1008 7C

Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

Directory of Local Assistance Centers of the National Water Data Exchange (NAWDEX),
W77-04225 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 2. Susquehanna and Potomac River Basins.
W77-04228 1009 7C

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Water Resources Data for Colorado, Water Year 1975--Volume 1. Missouri River Basin, Arkansas River Basin, Rio Grande Basin.
W77-04975 1010 7C

Water Resources Service Dissolved Gas Study: Interim Data Summary,
W77-05080 1010 5C

Water Resources Data for California, Water Year 1975--Volume 4. Northern Central Valley Basins and the Great Basin From Honey Lake Basin to Oregon State Line,
W77-05263 1011 7C

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

Standards for Interchange of Water Resources Data on Computer Media,
W77-05523 1011 7C

Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

Water Resources Data for Louisiana, Water Year 1976--Volume 1. Central and Northern Louisiana.
W77-06326 1013 7C

Water Resources Data for Louisiana, Water Year 1976--Volume 2. Southern Louisiana.
W77-06327 1013 7C

Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

Surface Water Supply of the United States, 1966-70--Part 15. Alaska.
W77-07493 1015 7C

Economic Value of Low Flow Data,
W77-07537 1015 5D

Study of the Rio Grande, Bolivia Highlights Some Basic Questions About Simulation,
W77-07945 1016 2A

Water Resources Data for Indiana, Water Year 1975,
W77-08162 1017 7C

Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

Selected Hydrologic Data, Uinta Basin Area, Utah and Colorado,
W77-08183 1017 7C

Water Resources Data for Illinois, Water Year 1975,
W77-08184 1017 7C

Water Resources Data for Nevada, Water Year 1975,
W77-08185 1017 7C

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Water Resources Data for Connecticut, Water Year 1975,
W77-08480 1017 7C

Water Resources Data for New York, Water Year 1975.
W77-08485 1017 7C

HISARS - Hydrologic Information Storage and Retrieval System - Reference Manual,
W77-08610 1018 7C

Water Resources Data for Washington, Water Year 1975.
W77-08737 1018 7C

Water Resources Data for Montana, Water Year 1975.
W77-08738 1018 7C

Water Resources Data for Mississippi, Water Year 1975.
W77-09074 1018 7C

Water Resources Data for North Dakota, Water Year 1975.
W77-09075 1018 7C

Water Resources Data for Ohio, Water Year 1975--Volume 1. Ohio River Basin.
W77-10000 1020 7C

Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

Water Resources Data For Wyoming, Water Year 1975.
W77-10002 1020 7C

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
W77-10013 1020 7C

Data Collection, Analysis and Instrumentation,
W77-10442 1021 2A

Water Resources Data for Texas, Water Year 1975--Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and Intervening Coastal Basins.
W77-10552 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin and Intervening Coastal Basins.
W77-10553 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin and Intervening Coastal Basins.
W77-10554 1021 7C

Identification of Structure and Parameters of Hydrologic Runoff-Models (Identifikation von Struktur und Parametern hydrologischer Abflussmodelle),
W77-10594 1021 2E

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

Water Resources Data for New Jersey, Water Year 1975.
W77-10854 1022 7C

Water Resources Data for Missouri, Water Year 1975.
W77-10855 1022 7C

Water Resources Data for Virginia, Water Year 1975.
W77-10856 1022 7C

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

Hydrologic Engineering Methods for Water Resources Development: Volume 8, Reservoir Yield,
W77-10991 1022 8B

Water Resources Data for Maine, Water Year 1975.
W77-11371 1022 7C

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

Water Resources Data for Maryland and Delaware, Water Year 1975.
W77-11373 1022 7C

Water Resources Data for Kansas, Water Year 1976.
W77-11374 1022 7C

The Integrated Hydrological Catchment Model EGMO,
W77-11815 1023 2A

Water Resources Data for Florida, Water Year 1975--Volume 2. Southern Florida.
W77-11876 1023 7C

Water Resources Data for Florida, Water Year 1975--Volume 1. Northern Florida.
W77-11877 1023 7C

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

Water Resources Data for Nevada, Water Year 1976.
W77-12386 1024 7C

Water Resources Data for Alabama, Water Year 1976.
W77-12387 1024 7C

Water Resources Data for South Carolina, Water Year 1976.
W77-12388 1024 7C

Water Resources Data for Kentucky, Water Year 1976.
W77-12389 1024 7C

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

Urban Runoff Characteristics: Volume I - Analytical Studies,
W77-12477 1024 5B

HYDROLOGIC ENGINEERING

Hydrologic Engineering Methods for Water Resources Development, Volume 3, Hydrologic Frequency Analysis,
W77-00169 1001 4A

HYDROLOGIC ENGINEERING METHODS

Hydrologic Engineering Methods for Water Resources Development: Volume 8, Reservoir Yield,
W77-10991 1022 8B

HYDROLOGIC INFORMATION STORAGE AND RETRIEVAL SYSTEM

Development of a Hydrologic Information Storage and Retrieval System,
W77-08609 1018 7C

HYDROLOGIC INFORMATION STORAGE AND RETRIEVAL SYSTEM (MANUAL)

HISARS - Hydrologic Information Storage and Retrieval System - Reference Manual,
W77-08610 1018 7C

HYDROLOGIC MODELS

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

HYDROLOGIC OPTICS

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

HYDROLOGIC PROPERTIES

Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

Digital-Simulation Model of the Wenonah-Mount Laurel Aquifer in the Coastal Plain of New Jersey,
W77-02975 1006 2F

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

The Use of Lysimeters in the Hydrological Investigation of the Unsaturated Zone,
W77-07780 1016 2D

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

Brackish Groundwater Bodies as a Result of Geological History and Hydrological Conditions,
W77-11057 1022 2F

Effect of Misestimating Harmonics in Periodic Hydrologic Parameters,
W77-12550 1024 2E

HYDROLOGIC REGIME

Adjustment of Stream-Channel Shape to Hydrologic Regime,
W77-00379 1001 8B

HYDROLOGIC RESPONSE UNITS

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

HYDROLOGIC SEQUENCES

Model of the Disturbances in Hydrological Sequences Based on the Method of Demodulation,
W77-11602 1023 2E

HYDROLOGIC SYSTEMS

A Stable Estimator for Linear Models 1. Theoretical Development and Monte Carlo Experiments,
W77-00123 1001 4A

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

Useful Modeling Concepts for the FCD Water System,
W77-03524 1007 6A

Barataria Basin: Hydrologic and Climatologic Processes,
W77-05133 1011 2L

An Application of Computer Graphics to Analysis of Extremes,
W77-05164 1011 2E

New Forms of Correlation Relationships Between Positive Quantities Applied in Hydrology,
W77-07659 1016 2A

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

An Operational Approach to Preserving Skew in Hydrologic Models of Long-Term Persistence,
W77-09127 1019 2A

Stochastic Identification of Nonlinear Hydrological Systems,
W77-10431 1021 2A

Stochastic Properties of the Processes Transformed in Linear Hydrological Systems,
W77-10436 1021 2A

Structure of Natural Hydrologic Time Processes,
W77-10440 1021 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Applied Principles of Catchment Simulation,
W77-12106 1023 2A

A Generalized Streamflow Simulation System,
W77-12113 1023 2A

HYDROLOGIC TRANSPORT MODELS

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

HYDROLOGIC UNIT MAPS (ARK)

Hydrologic Unit Map--1974, State of Arkansas.
W77-11881 1023 7C

HYDROLOGIC UNIT MAPS (COLOR)

Hydrologic Unit Map--1974, State of Colorado.
W77-03893 1008 7C

HYDROLOGIC UNIT MAPS (IOWA)

Hydrologic Unit Map--1974, State of Iowa
W77-00425 1001 7C

HYDROLOGIC UNIT MAPS (KANS)

Hydrologic Unit Map--1974, State of Kansas.
W77-08477 1017 7C

HYDROLOGIC UNIT MAPS (KY)

Hydrologic Unit Map--1974, State of Kentucky.
W77-11882 1023 7C

HYDROLOGIC UNIT MAPS (LA)

Hydrologic Unit Map--1974, State of Louisiana.
W77-11880 1023 7C

HYDROLOGIC UNIT MAPS (MISS)

Hydrologic Unit Map--1974, State of Mississippi.
W77-11883 1023 7C

HYDROLOGIC UNIT MAPS (MO)

Hydrologic Unit Map--1974, State of Missouri.
W77-11885 1023 7C

HYDROLOGIC UNIT MAPS (N DAK)

Hydrologic Unit Map--1974, State of North Dakota.
W77-02031 1004 7C

HYDROLOGIC UNIT MAPS (N MEX)

Hydrologic Unit Map--1974, State of New Mexico.
W77-05282 1011 7C

HYDROLOGIC UNIT MAPS (NEBR)

Hydrologic Unit Map--1974, State of Nebraska.
W77-05281 1011 7C

HYDROLOGIC UNIT MAPS (OKLA)

Hydrologic Unit Map--1974, State of Oklahoma.
W77-08475 1017 7C

HYDROLOGIC UNIT MAPS (S DAK)

Hydrologic Unit Map--1974, State of South Dakota.
W77-08476 1017 7C

HYDROLOGIC UNIT MAPS (TENN)

Hydrologic Unit Map--1974, State of Tennessee.
W77-11884 1023 7C

HYDROLOGIC UNIT MAPS (TEX)

Hydrologic Unit Map--1974, State of Texas.
W77-08474 1017 7C

HYDROLOGIC UNIT MAPS (WYO)

Hydrologic Unit Map--1974, State of Wyoming.
W77-00429 1001 7C

HYDROLOGIC VARIABLES

Probabilistic Models for Multiple and Synthetic Hydrologic Variables,
W77-10301 1021 2A

HYDROLOGICAL EVENTS

Return Periods of Hydrological Events,
W77-09958 1020 2B

HYDROLOGY

Economic Optimum Record Length,
W77-00117 1001 4A

Hydrologic Engineering Methods for Water Resources Development, Volume 3, Hydrologic Frequency Analysis,
W77-00169 1001 4A

Hydrologic Unit Map--1974, State of Iowa
W77-00425 1001 7C

Hydrologic Unit Map--1974, State of Wyoming.
W77-00429 1001 7C

Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Hydrologic Unit Map--1974, State of North Dakota.
W77-02031 1004 7C

Urban Hydrological Modeling and Catchment Research in Canada,
W77-02754 1006 2A

HYDROLOGY

Hydrologic Engineering Methods for Water Resources Development, Volume 6, Water Surface Profiles,
W77-03105 1007 8B

Hydrologic Unit Map--1974, State of Colorado.
W77-03893 1008 7C

Investigation into Methods for Developing a Physical Analysis for Evaluating Instream Flow Needs,
W77-04296 1009 2E

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

Why Simulation,
W77-04725 1010 2E

Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

Rainfall-Runoff Models,
W77-05010 1010 2A

Ground-Water Models,
W77-05012 1010 2F

Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

A Simple Case of Conjunctive Surface-Ground-Water Management,
W77-05198 1011 4B

Hydrologic Unit Map--1974, State of Nebraska.
W77-05281 1011 7C

Hydrologic Unit Map--1974, State of New Mexico.
W77-05282 1011 7C

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

Sediment Yield Prediction Based on Watershed Hydrology,
W77-06656 1014 4D

Mathematical Models in Hydrology.
W77-06708 1014 2A

Optimization of a Three-Reservoir System by Dynamic Programming,
W77-06720 1014 4A

Hydrological Evaluation of Changes in Runoff Characteristics,
W77-06732 1014 4A

Hydrology Research Division, Annual Progress Reports and Short Research Notes 1975-76.
W77-07336 1015 6E

Systems Approach and Watershed Models,
W77-07556 1015 2A

Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

Significance Tests of Periodicity in Hydrological Time Series,
W77-07665 1016 2A

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

Channelization: Environmental, Geomorphic and Engineering Aspects,
W77-08352 1017 8D

Hydrologic Unit Map--1974, State of Texas.
W77-08474 1017 7C

Hydrologic Unit Map--1974, State of Oklahoma.
W77-08475 1017 7C

Hydrologic Unit Map--1974, State of South Dakota.
W77-08476 1017 7C

Hydrologic Unit Map--1974, State of Kansas.
W77-08477 1017 7C

Criterion to Choose Step Length for Some Numerical Methods Used in Hydrology,
W77-09110 1019 2E

Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

Return Periods of Hydrological Events,
W77-09958 1020 2B

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

Law of Probability for Two Low Water Variables,
W77-10297 1021 2E

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

Analysis of the Stochastic Coincidence of Certain Hydrological Processes,
W77-10299 1021 2E

Application of Mathematical Models in Hydrology and Water Resources Systems.
W77-10419 1021 2A

Mathematical Simulation Models of Hydrological Processes in Turkey,
W77-10430 1021 2A

Stochastic Approaches to Water Resources, Volumes I and II,
W77-10439 1021 6A

A Procedure for the Selection of Objective Functions for Hydrologic Simulation Models,
W77-10767 1021 2E

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

Hydrology of Small Watersheds in Wisconsin's Driftless Area,
W77-11209 1022 2A

Model of the Disturbances in Hydrological Sequences Based on the Method of Demodulation,
W77-11602 1023 2E

Hydrologic Unit Map--1974, State of Louisiana.
W77-11880 1023 7C

Hydrologic Unit Map--1974, State of Arkansas.
W77-11881 1023 7C

Hydrologic Unit Map--1974, State of Kentucky.
W77-11882 1023 7C

Hydrologic Unit Map--1974, State of Tennessee.
W77-11884 1023 7C

Hydrologic Unit Map--1974, State of Missouri.
W77-11885 1023 7C

HYDROLYSIS

Hydrolysis of Press Waste Waters from the Manufacture of Fiber (Insulation) Boards (Contributii la studiul procesului de hidroliza a apelor de presa din circuitul de fabricatie al P.F.L.),
W77-00324 1001 5D

Chemical-Technological Control of (Effluent) Purification Equipment (Khimiko-tekhnologicheskii kontrol' na ochistnykh sooruzheniyakh),
W77-00327 1001 5D

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Rates of Urea Hydrolysis in Five Soils of India,
W77-03632 1008 2G

Sucrose Removal from Cane Sugar Mill Waste Streams by Ion Exchange,
W77-04142 1009 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

Tripolyphosphate and Pyrophosphate Hydrolysis in Sediments,
W77-10285 1021 5B

Sorption and Hydrolysis of Added Organic Phosphorus Compounds in Lake Sediments,
W77-10799 1021 5B

Organic Matter and Parathion Degradation in Flooded Soil,
W77-11561 1023 5B

HYDROMETRIC DATA

Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

HYDROMETRIC NETWORKS

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

HYDROMETRY

Prospects of Hydrometry in the Light of Modern Technology,
W77-01519 1003 7B

HYDROPHOBIC EMULSIONS
Preliminary Study on Some Saline Soils of Peru Using a Hydrophobic Emulsion,
W77-12044 1023 3C

HYDROPHYSICS
Use of Thermodynamic Potential of Soil Moisture for Studying Soil and Plant Hydrophysics, (In Russian),
W77-12471 1024 2G

HYDROPHYSIOGRAPHIC MODELS
The Cequeau Model: Description and Examples of Its Use in Problems Related to Water Resource Management,
W77-11239 1022 2A

HYDROPHYTES
Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

HYDROPLANTS
Optimization Model of a System of Two Open-Channel Hydroplants,
W77-06716 1014 4A

Computer Applications to Achieve Optimum Economic Loading of Generating Plants,
W77-10288 1021 6A

HYDROPSYCHE
Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

HYDRORHIZAL COLONIES
On the Influence of Water Currents on the Growth of Hydrorhizal Colonies, (In German),
W77-00506 1001 2I

HYDROSALINITY MODELING
A Conceptual Hydrosalinity Model for Predicting Salt Load in Irrigation Return Flows,
W77-12758 1024 5B

Hydrosalinity Modeling of Irrigation Return Flow in the Mesilla Valley, New Mexico,
W77-12759 1024 5B

HYDROSOILS (SOILS)
Soils of the Tedzen-Hurghab Interfluvial Area, (In Russian),
W77-05960 1012 2G

HYDROSTATIC PRESSURE
Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

The Effects of Temperature and Hydrostatic Pressure on Enzymes of an Abyssal Fish, Antimora Rostrata: Liver NADP-Linked Isocitrate Dehydrogenase,
W77-00875 1002 5C

Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Effects of Combination of Temperature and Hydrostatic Pressure on Asterias rubens,
W77-07308 1015 5C

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

HYDROSTATIC PRESSURE INCREASE
Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

HYDROTHERMAL PREDICTION
An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

HYDROTHERMAL STUDIES
An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

Temperature and Chemism of Ground Waters in the Western Areas of the East European Platform,
W77-08683 1018 2K

Geochemistry and Origin of Thermal Waters in Poland,
W77-08684 1018 2K

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

HYDROUS OXIDES
Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

HYDROXIDES
Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

HYETOGRAPHS
Synthetic Design Hyetograph and Rational Runoff Coefficient,
W77-02135 1005 2E

Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

HYPERCAPNIA
Effects of Hypercapnia on the Buffer Capacity and Haematological Values in Salmo Salar (L.),
W77-12658 1024 5C

HYPERFILTRATION
Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

HYPERSALINE BASINS
Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

HYPERSALINE ENVIRONMENTS
Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

HYPERTROPHICATION
The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

HYPHOMYCETES
Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

HYPOCALCEMIA
Physiological Assessment of Calcium Content in Distilled Drinking Water, (In Russian),
W77-02909 1006 5F

HYPOCHLORITES
Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

HYPOLIMNION
Abyssal Hydrography, Nephelometry, Currents, and Benthic Boundary Layer Structure in the Vema Channel,
W77-04004 1008 2L

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

HYPOLIMNION

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

Lake Restoration by Bottom Water Siphoning, (In German),
W77-07577 1015 5G

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

HYPOPHTHALMICHTHYS-MOLITRIX

Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

HYPOTHESIS

Rollers and Ripples in Sand, Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders,
W77-03998 1008 2J

HYPOTHETICAL FLOODS

Hydrologic Engineering Methods for Water Resources Development, Volume 5, Hypothetical Floods,
W77-03104 1007 8B

HYPOXEMIA

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

HYPOXIA

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

HYRAULIC CONDUCTIVITY

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

HYSTERESIS

Influence of Hysteresis on Moisture Flow in an Undisturbed Soil Monolith,
W77-01323 1003 2G

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

The Application of the Overburden Potential Theory to Swelling Soils,
W77-05167 1011 2G

Hysteretical Models for Prediction of the Hydraulic Conductivity of Unsaturated Porous Media,
W77-05344 1011 2G

Vertical Mixing Mechanisms and Their Effects on Primary Production of Phytoplankton,
W77-07733 1016 5C

Hysteretic Steady State Soil Water Profiles,
W77-11212 1022 2G

Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

ICE

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

Long-Range Forecasting of Maximum Ice Extent on the Great Lakes,
W77-00276 1001 2C

Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

Ice Conditions and the Proposed Containment and Removal of Spilled Oil on St. Clair and Detroit Rivers,
W77-01802 1004 5G

Potential Use of Satellite IR Data for Ice Thickness Mapping,
W77-01913 1004 2C

Lock Wall Deicing with Water Jets: Field Tests at Ship Locks in Montreal, Canada and Sault Ste. Marie, Michigan,
W77-02156 1005 8C

The Effect of Subglacial Chemical Processes on Glacier Sliding,
W77-02459 1005 2C

The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads,
W77-02460 1005 2C

The Application of Fracture Mechanics to the Problem of Crevasse Penetration,
W77-02461 1005 2C

A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

A Note on the Contribution of Rime and Surface Hoar to the Accumulation on the Ross Ice Shelf, Antarctica,
W77-02469 1005 2C

A Concise Method for Analyzing the Ice-Melting Performance of a Heated Disc,
W77-02470 1005 2C

Molecular Studies of the Ice-Forming Capabilities of Different Surfaces,
W77-02487 1005 3B

The Survival of Ice Particles Falling From Cirrus Clouds in Subsaturated Air,
W77-02488 1005 2B

Behaviour of Oil Spilled in Ice-Covered Rivers,
W77-02760 1006 5B

Ice Flushing from St. Lawrence Seaway Locks; Hydraulic Model Investigation,
W77-02953 1006 8B

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

Strength of Ice Under Multiaxial Loading,
W77-03301 1007 2C

Theoretical Model of River Ice Jams,
W77-03745 1008 2C

Seasonal Variations of Chemical Constituents in Annual Layers of Greenland Deep Ice Deposits,
W77-03773 1008 2C

Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

Mathematical Models of Ice Shelves,
W77-05422 1011 2C

Temperature-Gradient Induced Mass-Instability Theory of Glacier Surge,
W77-05423 1011 2C

Glacier Sliding Down an Inclined Wavy Bed,
W77-05424 1011 2C

Glacier Sliding Down an Inclined Wavy Bed with Friction,
W77-05425 1011 2C

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

Radio-Echo Power Profiling,
W77-05430 1011 2C

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

Rheological Implications of the Internal Structure and Crystal Fabrics of the West Antarctic Ice Sheet as Revealed by Deep Core Drilling at Byrd Station,
W77-05798 1012 2C

Recumbent Folding in the Base of the Barnes Ice Cap, Baffin Island, Northwest Territories, Canada,
W77-05799 1012 2C

Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

Method for Constructing an Ice Platform,
W77-06451 1013 3E

Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

An Annular Flow Ice-Water Model Heat Sink,
W77-06889 1014 2C

Devon Island Ice Cap: Core Stratigraphy and Paleoclimate,
W77-06890 1014 2C

Parameterization of Depositional Ice Growth,
W77-07171 1015 2B

Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

Oil Spill at Deception Bay, Hudson Strait,
W77-07731 1016 5G

An Experimental and Theoretical Study of the Turbulent and Laminar Convection Generated Under a Horizontal Ice Sheet Floating on Warm Salty Water,
W77-07773 1016 2C

Electrical Resistivity Measurements on the Ross Ice Shelf,
W77-08051 1016 2C

Penetration Depth of Closely Spaced Water-Free Crevasses,
W77-08052 1016 2C

Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

Resurvey of the 'Byrd' Station, Antarctica, Drill Hole,
W77-08227 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Water and Ice Potentials in Frozen Soils,
W77-08828 1018 2C

Was There a Late-Wurm Arctic Ice Sheet,
W77-08839 1018 2C

Study of an Ice Core to the Bedrock in the Accumulation Zone of an Alpine Glacier,
W77-08846 1018 2C

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

On the Use of Tensiometers in Snow Hydrology,
W77-09123 1019 2C

Settling Velocities of Small Ice Crystals,
W77-10121 1021 2B

Heat Transfer Characteristics of Melting and Refreezing a Drill Hole Through an Ice Shelf in Antarctica,
W77-10655 1021 2C

Observation of Oscillatory Ice States in a Simple Convection Experiment,
W77-10656 1021 2C

Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

Observations of Medium-Scale Features Along the Seasonal Ice Edge in the Bering Sea,
W77-11809 1023 2C

ICE AND TRASH SLUICEWAY
Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

ICE BOOMS
Force Measurements on a Navigable Ice Boom,
W77-11814 1023 2C

ICE BREAKUP
Breakup Flooding and Nutrient Source of Colville River Delta During 1973,
W77-03388 1007 5B

Stability Analysis of Floating and Submerged Ice Floes,
W77-10119 1021 2C

ICE CAPS
A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Devon Island Ice Cap: Core Stratigraphy and Paleoclimate,
W77-06890 1014 2C

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

ICE CHARTS
Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

ICE COMPRESSIBILITY
Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

ICE CONDITIONS
Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

ICE CORES
Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

ICE COVER
Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

Measurements of the Turbulent Boundary Layer Under Pack Ice,
W77-02138 1005 2C

Ice Movement and Distribution in the Bering Sea from March to June 1974,
W77-02482 1005 2C

An Analysis of Great Lakes Ice Cover from Satellite Imagery,
W77-02676 1006 2C

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

Radio-Echo Layers and the Recent Stability of the West Antarctic Ice Sheet,
W77-03100 1007 2C

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Estimate of the Suitability of Television Information from Meteorological Meteor Satellites for Determining Ice Conditions in Lakes and Reservoirs,
W77-03765 1008 2C

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

Lake Ontario Ice Modeling IFYGL, Phase 3, Final Report,
W77-05128 1011 2C

Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

Delaware Bay Ice Conditions, 1977,
W77-10188 1021 2L

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

On the Use of Microwave Radiation for Great Lakes Ice Surveillance,
W77-11052 1022 2C

Great Lakes Ice Cover, Winter 1975-76,
W77-11054 1022 2C

Force Measurements on a Navigable Ice Boom,
W77-11814 1023 2C

ICE COVER EFFECTS
Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

ICE CRYSTAL GROWTH
Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

ICE CRYSTAL REPLICATORS
A Simple Continuous Ice Crystal Replicator for Use in Laboratory Cloud Chambers,
W77-09360 1019 2B

ICE CRYSTALS
Final Report on an Investigation of Precipitating Ice Crystals from Natural and Seeded Winter Orographic Clouds,
W77-00096 1001 3B

Settling Velocities of Small Ice Crystals,
W77-10121 1021 2B

ICE FORCES
Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

ICE FORECASTING
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

ICE FORMATION
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

ICE FORMATIONS
Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

ICE JAMS
Ice Flushing from St. Lawrence Seaway Locks; Hydraulic Model Investigation,
W77-02953 1006 8B

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Theoretical Model of River Ice Jams,
W77-03745 1008 2C

The Flooding of Rivers in the USSR and the Measures Taken to Control Ice Jams (Les Inondations Fluviales En URSS Et La Lutte Contre Les Crues Causees Par Les Embacles),
W77-08246 1017 2C

Stability Analysis of Floating and Submerged Ice Floes,
W77-10119 1021 2C

ICE LEADS
Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

ICE LOADS
Influence of Ice upon Construction, and Methods of Combatting Ice Problems.
W77-00663 1002 8A

Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

Force Measurements on a Navigable Ice Boom,
W77-11814 1023 2C

ICE MOVEMENT
Ice Movement and Distribution in the Bering Sea from March to June 1974,
W77-02482 1005 2C

ICE NUCLEI
A Suggested Technique for the Analysis of Airborne Continuous Ice Nucleus Data,
W77-09361 1019 3B

ICE NUCLEUS COUNTERS
A Suggested Technique for the Analysis of Airborne Continuous Ice Nucleus Data,
W77-09361 1019 3B

ICE PACKS
Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

ICE PARTICLES
Deduction of Ice Particle Types in the Vicinity of the Melting Layer from Doppler Radar Measurements,
W77-09720 1020 2B

ICE PREVENTION
Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

ICE PROPERTIES
Research Projects in Glaciology - 1976.
W77-09220 1019 2C

ICE-RAFTING
North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

ICE REMOVAL
Lock Wall Deicing with Water Jets: Field Tests at Ship Locks in Montreal, Canada and Sault Ste. Marie, Michigan,
W77-02156 1005 8C

ICE SHEETS
A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Radio-Echo Layers and the Recent Stability of the West Antarctic Ice Sheet,
W77-03100 1007 2C

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

Was There a Late-Wurm Arctic Ice Sheet,
W77-08839 1018 2C

ICE SHELVES
Mathematical Models of Ice Shelves,
W77-05422 1011 2C

Electrical Resistivity Measurements on the Ross Ice Shelf,
W77-08051 1016 2C

ICE THICKNESS
Potential Use of Satellite IR Data for Ice Thickness Mapping,
W77-01913 1004 2C

Lake Ontario Ice Modeling IFYGL, Phase 3, Final Report,
W77-05128 1011 2C

ICE TILT MEASUREMENT
Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

ICE-WATER INTERFACES
Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

The Effect of Subglacial Chemical Processes on Glacier Sliding,
W77-02459 1005 2C

An Annular Flow Ice-Water Model Heat Sink,
W77-06889 1014 2C

Observations of Medium-Scale Features Along the Seasonal Ice Edge in the Bering Sea,
W77-11809 1023 2C

ICED LAKES
Long-Range Forecasting of Maximum Ice Extent on the Great Lakes,
W77-00276 1001 2C

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

ICELAND
Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

A Theoretical Analysis of the Formation of Glacial Flutes,
W77-02466 1005 2C

Hot Groundwater Systems in Iceland Traced by Deuterium,
W77-11812 1023 2F

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

ICELAND (SNAEFELLSNESS)
Mineral Springs of Iceland, their Character and Curative Properties, (In German),
W77-04842 1010 2K

ICHTHYOPLANKTON
Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

ICHTHYOTOXINS
Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

ICI DEEP SHAFT EFFLUENT TREATMENT SYSTEM
ICI Effluent System to be Used in Essex.
W77-08590 1017 5D

ICTALURUS PUNCTATUS
Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

IDAHO
The Economic Water Supply in Idaho,
W77-00538 1002 6B

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

Idaho Water Resource Board V Kramer (Statutory Interpretation of Water Resources Board Comprehensive State Water Planning).
W77-01017 1002 6E

Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Maximum Peak Flow for Selected Return Periods for Watersheds West of the Continental Divide in Idaho and Montana,
W77-01435 1003 4D

Subsurface Flow Interception by a Logging Road in Mountains of Central Idaho,
W77-01948 1004 4C

The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

Publications List of the Idaho Water Resources Research Institute,
W77-03154 1007 10C

Heavy Metals in Lakes of the Coeur d'Alene River Valley, Idaho,
W77-03207 1007 5B

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

The Objectives, Part I of the State Water Plan, (Idaho Water Resources Board).
W77-03544 1007 6B

Idaho Environmental Overview,
W77-03557 1007 6G

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Developing Criteria to Classify Wild and Scenic Rivers,
W77-04995 1010 6B

Methodology and Criteria for Siting Energy Plants in Idaho,
W77-05006 1010 6G

In-Stream Appropriation for Recreation and Scenic Beauty (Comment on Idaho Department of Parks V Idaho Department of Water Administration),
W77-05057 1010 6E

Analysis of Rehabilitation Treatment Alternatives for Sediment Control,
W77-05116 1011 4D

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

Brizendine V Nampa Meridian Irrigation District (Duty to Maintain Canal),
W77-06077 1012 6E

State of Idaho, Interim State Water Plan, Preliminary Report.
W77-06358 1013 6B

Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

Summary Report Conclusions and Recommendations: Panhandle River Basins, State Water Plan--Part Two.
W77-06360 1013 6B

Encroachments on Navigable Lake.
W77-07264 1015 6E

Appropriation of Water--Permits, Certificates and Licenses--Survey.
W77-07265 1015 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Sale of Water Rights,
W77-08140 1017 6E

Department of Water Resources,
W77-08141 1017 6E

Bear River Compact,
W77-08155 1017 6E

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Should Rivers Have Running. Toward Extension of the Reserved Rights Doctrine to Include Minimum Stream Flows,
W77-08372 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Artesian Wells.
W77-08397 1017 6E

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Snake River Interstate Compact.
W77-08996 1018 6E

Headgates and Measuring Devices: Distribution of Stored Water.
W77-08997 1018 6E

Distribution of Water Among Appropriators.
W77-08998 1018 6E

Polymerization of Concrete Fights Cavitation,
W77-09044 1018 8F

Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

Energy Plant Siting Legislation,
W77-09050 1018 6E

A Comparative Study of Organic Carbon and Nutrients in Lake Sediment,
W77-09065 1018 5A

Augmenting Summer Streamflow by Use of a Silicone Antitranspirant,
W77-09126 1019 3B

Predicting Attainable Irrigation Efficiencies in the Upper Snake River Region,
W77-09137 1019 3F

Concentration and Distribution of Elements in Plants and Soils Near Phosphate Processing Factories, Pocatello, Idaho,
W77-09444 1019 5B

Alteration of Channel of Streams (Permit System).
W77-09575 1019 6E

Preservation of Certain Lakes as Health Resorts and Recreation Places.
W77-09576 1019 6E

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

Impact of Legal Constraints on Ground-Water Resource Development in Idaho,
W77-10173 1021 6E

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

Conservation of Water for Irrigation Purpose.
W77-11194 1022 6E

Water Rights (Constitutional Provisions).
W77-11195 1022 6E

Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

Teton Dam Failure.
W77-12324 1024 8D

Potential Water Yield Response Following Clearcut Harvesting on North and South Slopes in Northern Idaho,
W77-12366 1024 4C

Geothermal Investigations in Idaho: Part 7, Geochemistry and Geologic Setting of the Thermal Waters of the Camas Prairie Area,
W77-12782 1024 4B

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

IDAHO BATHOLITH

Subsurface Flow Interception by a Logging Road in Mountains of Central Idaho,
W77-01948 1004 4C

IDAHO STATE WATER PLAN

State of Idaho, Interim State Water Plan, Preliminary Report.
W77-06358 1013 6B

Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

Summary Report Conclusions and Recommendations: Panhandle River Basins, State Water Plan--Part Two.
W77-06360 1013 6B

IDE

Morpho-Ecological Characteristics of the Ide, Leuciscus Idus (Linne), from the Kremenchug Reservoir. (In Russian),
W77-00504 1001 2H

IDOTEA BALTICA

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

IDRONOVA HYDRODYNAMIC FILTERS

Two New Methods of Sludge Removal,
W77-07224 1015 5D

IGLOO ABSORBER TESTS

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

ILLINOIS

Evaluation Report: Water Resources Appraisal for Hydroelectric Licensing. Dayton Development, Project No. 287, Fox River, Wisconsin and Illinois.
W77-01511 1003 6F

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

Environmental Impacts of Land Application of Sludge,
W77-02391 1005 5D

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Optimal Raingage Densities and Accumulation Times: A Decision-Making Procedure,
W77-02798 1006 2B

Index to Water Resources Data for Illinois,
W77-02990 1006 7C

The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

Village of Lombard V State Pollution Control Board (Pollution Control Board Without Authority to Impose Regionalization Upon Local Governmental Bodies).
W77-03511 1007 6E

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Lead Transport in a River Ecosystem,
W77-03672 1008 5B

Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

Enforcement Under the Illinois Pollution Law,
W77-04567 1009 5G

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Kishwaukee River Flood Plain Information, Winnebago County, Illinois.
W77-05288 1011 4A

Recycling Agricultural Runoff,
W77-05333 1011 5D

Tri-County Landfill Company V Illinois Pollution Control Board (Landfills Polluting Waters Termed Hazards).
W77-06066 1012 6E

Monsanto Company V Illinois Pollution Control Board (Requirements for Petitioning for Permanent Variance from Water Pollution Regulations Pertaining to Mercury Discharge into Public Sewer System).
W77-06068 1012 6E

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Underflow from Sludge-Irrigated Cropland,
W77-07056 1014 5B

Design Criteria for Hydrologic Extremes,
W77-07165 1015 8B

Maximum 5-Minute and Hourly Rainfalls on Metromex Network, 1971-1975,
W77-07374 1015 2B

Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

Water Resources Data for Illinois, Water Year 1975,
W77-08184 1017 7C

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

Digital-Computer Model of the Sandstone Aquifer in Southeastern Wisconsin,
W77-08478 1017 2F

Cement-Mud Spacer System Improves Illinois Wells,
W77-08647 1018 8F

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

The Aquatic Thermal Capsule,
W77-09486 1019 5C

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Problems and Policy Alternatives: Mining,
W77-10163 1021 5G

Denitrification Kinetics in Soil Systems: The Significance of Good Fits of Data to Mathematical Forms,
W77-10272 1021 2G

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

Shore Stability and Beach and Bluff Protection Methods for the Illinois Shore of Lake Michigan.
W77-10502 1021 2J

Hydrogeologic, Geologic, and Engineering Aspects of Lake Michigan Surficial Deposits,
W77-10503 1021 2J

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Illinois Coastal Zone Management Program: Component Study of Biological Communities.
W77-10505 1021 2H

Maps of Shore and Nearshore Structures, Shore and Bluffline Positions, the 100-Year Anticipated Recession Line and Shore Ownership,
W77-10506 1021 2J

A Hydrometeorological Research Program,
W77-10658 1021 2B

Preliminary Evaluation of the 1976 Rain Modification Project in Central Illinois,
W77-10774 1021 3B

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

Migration of Landfill Leachate Through Glacial Tills,
W77-10968 1022 5B

Chapman v United States (Tort Liability for Submerged Dam in Navigable Stream).
W77-11202 1022 6E

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

The Need for a Reform of Water Use Law in Illinois,
W77-12884 1024 6E

ILLINOIS BEACH STATE PARK (ILL)

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

ILLINOIS COASTAL ZONE MANAGEMENT PROGRAM

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

ILLINOIS ENVIRONMENTAL PROTECTION ACT

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

ILLINOIS ENVIRONMENTAL PROTECTION ACT (1970)

Enforcement Under the Illinois Pollution Law,
W77-04567 1009 5G

ILLINOIS POLLUTION CONTROL BOARD

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

ILLINOIS RIVER

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

Effects of Tow Traffic on the Resuspension of Sediments and on Dissolved Oxygen Concentrations in the Illinois and Upper Mississippi Rivers Under Normal Pool Conditions,
W77-12331 1024 5C

ILLITE

Dissolution of Illite--A Possible Mechanism of Potassium Release,
W77-02283 1005 2G

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

ILYOCRYPTUS-SORDIDUS

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

IMAGING TECHNIQUES

Low-Cost Data Analysis Systems for Processing Multispectral Scanner Data,
W77-12549 1024 7B

IMBEDDINGS

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

IMIDAN

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

IMMATURE GROWTH STAGE
Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

IMMUE SYSTEM
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

IMMUNE RESPONSE
The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

IMMUNE SUPPRESSION
Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

IMMUNOASSAY
A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

IMPACT AREA ANALYSIS
Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

IMPACT ASSESSMENT
An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Social Impact Assessment: An Overview,
W77-00103 1001 6B

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

IMPACT PRESSURE PROBES
The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

IMPACT (RAINFALL)
Rainfall Interception by Cool-Desert Shrubs,
W77-01900 1004 3B

Splash Erosion of Primary Particles and Aggregates,
W77-09288 1019 2J

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Soil Surface Sealing Caused by Rain Drop Impact,
W77-11107 1022 2G

IMPACT STATEMENTS
Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

IMPACT STUDIES
Impact Studies and the Evaluation of Public Projects,
W77-02062 1004 6B

IMPAIRED WATER QUALITY
Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

Spill Penalties Draw Criticism,
W77-08973 1018 6E

IMPAIRED WATER REUSE
Dual Water Systems -- Design,
W77-12402 1024 5D

IMPAIRED WATER USE
Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

Effect of the Quality of Irrigation Water on the Yield of Some Wheat (Triticum Aestivum) Varieties in a Sandy Soil of Rajasthan,
W77-06247 1013 3C

Drip Irrigation with Saline Water and the Leaching of Soil by Means of Drip Irrigation,
W77-11062 1022 3C

IMPELLERS
Impeller Design Keeps Down Pump Set Maintenance.
W77-12439 1024 8C

IMPERIAL COUNTY (CALIF)
Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

IMPERIAL DAM (ARIZ)
Sediment Control at Imperial Dam,
W77-00802 1002 4D

IMPERIAL VALLEY
Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

IMPERIAL VALLEY (CALIF)
Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

Drainage Practice in Imperial Valley, California,
W77-12581 1024 4A

IMPERVIOUS SOILS
Recycling Agricultural Runoff,
W77-05333 1011 5D

IMPINGEMENT (FISH)
Survey of Fish Impingement at Power Plants in the United States, Volume I. The Great Lakes,
W77-11125 1022 8I

Survey of Fish Impingement at Power Plants in the United States, Volume II. Inland Waters,
W77-11126 1022 8I

IMPLICIT SCHEME
Quadratic Finite Elements in Shallow Water Problems,
W77-03083 1007 8B

IMPLIED BENEFITS
County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

IMPLIED DEDICATION
County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

IMPLIED USE
County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

IMPORTED WATER
Observed Channel Changes in a Mountain Stream Due to Increased Flow From Transbasin Imports,
W77-00829 1002 8B

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

The Feasibility of a Water Importation Project for South Florida,
W77-07259 1015 6E

Water Projects Go Underground,
W77-12886 1024 4B

IMPOUNDED WATERS
SKYLAB Study of Water Quality,
W77-02505 1005 5A

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

Miscellaneous Provisions on Water Rights, Uses and Protection,
W77-06571 1013 6E

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

An Assessment of the Impact of Water Impoundment and Diversion Structures on Vegetation in Southern Arizona,
W77-11429 1022 4A

IMPOUNDMENT TERRACES
Soil and Water Loss from Impoundment Terrace Systems,
W77-00796 1002 4D

IMPOUNDMENTS
Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Soil and Water Loss from Impoundment Terrace Systems,
W77-00796 1002 4D

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

The Effects of Diurnal Mixing on Thermal Stratification of Static Impoundments,
W77-05172 1011 4A

A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

Simulation of Impoundment Terrace Hydraulics,
W77-07767 1016 8B

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

The Consequences of Impoundment on an Arctic Char Lake System. An Analysis by Simulation Modelling,
W77-09616 1020 5B

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

Low Flow Criteria for Diversions and Impoundments,
W77-11778 1023 4A

IMPULSE ELECTRIC CHARGES
Water Decontamination in Northern Regions by Impulse Electric Charges, (In Russian),
W77-06791 1014 5D

IN SITU MEASUREMENT
In Situ Measurement of Gas Diffusion Coefficient in Soils,
W77-09442 1019 2G

IN SITU SAMPLING
A Note on an in Situ Groundwater Sampling Procedure,
W77-04127 1009 5A

INADVERTENT WEATHER MODIFICATION
Inadvertent Weather Modification,
W77-02453 1005 3B

INCHOATE RIGHTS
Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

INCINERATION
Sludge Disposal Alternatives for Boston,
W77-00016 1001 5E

The Past, Present, and Future Prospects of Burning Municipal Sewage Sludge Along with Mixed Municipal Refuse,
W77-00021 1001 5E

Method for Improving Sewage Sludge Incineration,
W77-00576 1002 5E

Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Incineration of Industrial Wastes,
W77-02596 1006 5E

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

Sludge Incineration.
W77-03419 1007 5E

Sewage Sludge Treatment System,
W77-03487 1007 5D

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Experiences with the Thickening and Burning of Biological and Nonbiological Sludges (Erfahrungen bei der Entwaesserung und Verbrennung von biologischen und nichtbiologischen Schlaemmen),
W77-04814 1010 5E

Gas from Sewage, Sludge Pyrolysis Energy Source Says California Study.
W77-06118 1013 5D

New Refuse Incinerator to Burn Atomized Sludge,
W77-06125 1013 5E

The First Fluosolids Incinerator Commissioned in the U.K.
W77-06130 1013 5D

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

New York City Area Examines Alternative to Ocean Dumping.
W77-06143 1013 5E

Simultaneous Incineration of Refuse and Sewage Sludge: The Principles and Application at Bowhouse, Alloa, Scotland,
W77-06147 1013 5E

Earth, Fire and Sludge,
W77-06153 1013 5E

Burning Waste Chlorinated Hydrocarbons in a Cement Kiln,
W77-06946 1014 5E

Fluosolids Incinerator Commissioned at Esher,
W77-07018 1014 5E

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Golar Rubbish, Oil Sludge and Sewage Incinerator.
W77-07911 1016 5E

Incineration Method and System,
W77-08098 1016 5E

S. W.'s Sludge Incineration scheme,
W77-08570 1017 5E

Incineration Solves Tough Waste Problems.
W77-08576 1017 5E

Fluid Bed for Sewage Sludge Burn Up,
W77-08582 1017 5E

Sewage Sludge Incineration Should Be Improved by Addition of Newsprint Pulp.
W77-08639 1018 5E

Sludge Incineration,
W77-08717 1018 5E

Metals in the Aqueous Effluents from Municipal Incinerators and an Incinerator-Residue Processing Plant,
W77-09600 1019 5A

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Co-Burning of Sludge and Refuse with Waste Heat Recovery,
W77-09857 1020 5E

How Sludge Characteristics Affect Incinerator Design,
W77-09869 1020 5E

Options for Sludge--To Land, Sea or Fire,
W77-09918 1020 5E

Energy Usage and Recovery in Sludge Disposal Part 1,
W77-10632 1021 5D

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

INCINERATION

Standing Committee on the Disposal of Sewage Sludge.
W77-11740 1023 5E

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

More Disposal Operations Mixing Sewage Sludge and Municipal Solid Wastes,
W77-12418 1024 5E

Co-Disposal for Solid Wastes and Sewage Sludge,
W77-12426 1024 5E

Single-Hearth Screenings Incinerator.
W77-12440 1024 5E

Pollution Control by Incineration,
W77-12441 1024 5E

Energy Uses and Recovery in Sludge Disposal, Part 2,
W77-12498 1024 5E

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

INCINERATION SHIPS

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

INCINERATORS

Sludge Incinerator Proves a Success.
W77-06137 1013 5D

Sludge Incineration at Esher.
W77-07020 1014 5E

INCIPENT TRANSPORT

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

INCIPIENT LETHAL LEVEL

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

INCIPIENT MOTION

Scouring of Cohesive Soils,
W77-02127 1005 2J

INCOME

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

INCOME ANALYSIS

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

INCOME DISTRIBUTION

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

INCREASING DISCHARGE

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

INCRUSTATION

Well Redevelopment: Part 1,
W77-12673 1024 8B

INCUBATION

Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Egg Incubation and Larval Rearing of Navaga (Eleginus Navaga Pall.), Polar Cod (Boreogadus Saida Lepechin) and Arctic Flounder (Liopsetta Glacialis Pall.) in the Laboratory,
W77-06792 1014 8I

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

Two-Temperature Membrane Filter Method for Enumerating Fecal Coliform Bacteria from Chlorinated Effluents,
W77-11728 1023 5A

INDENTIFICATION OF UNCERTAINTIES

Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

INDETERMINATE GROWTH

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

INDEXING

Index to Water Resources Data for Illinois,
W77-02990 1006 7C

Index of Surface-Water Stations in Texas, October 1976,
W77-05760 1012 7C

Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

A Technique to Index Soil Pores and Aggregates Larger than 20 Micrometers,
W77-08059 1016 2G

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 1, Abstracts.
W77-09344 1019 10C

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 2, Indexes.
W77-09345 1019 10C

Earth Resources--A Continuing Bibliography with Indexes.
W77-09346 1019 10C

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

INDIA

Ecologically Balanced Community Wastewater Disposal Systems Management for Developing Countries,
W77-00066 1001 5D

Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

A Study of Maximum Values of Within-Storm Rainfall,
W77-01127 1003 2B

Dynamical Abnormalities Associated with Drought in the Asiatic Summer Monsoon,
W77-01128 1003 2B

Result of Operational Cloud Seeding Experiment Over Rihand Catchment in Northeast India,
W77-01129 1003 3B

The Study of Droughts by Water Budget Method over Andhra Pradesh,
W77-01130 1003 2B

Generalized Relationship Between Maximum Rain Depth, Area and Return Period for Major Rainstorms,
W77-01131 1003 2B

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Rainfall and Floods in India during 1973 Southwest Monsoon Period,
W77-01329 1003 2B

Waves in Coastal Waters Off Mangalore; Pt. I: Distribution of Wave Characteristics,
W77-01330 1003 2L

Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

Flood Problems in Uttar Pradesh,
W77-01450 1003 2E

Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India,
W77-01626 1004 5B

Flash Floods in India,
W77-01943 1004 2E

International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Natural and Human Influence on the Hydrological Cycle in South India,
W77-02777 1006 4D

Man's Impact on Erosion in the Rural Environment: The Indian Experience,
W77-02778 1006 4C

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Crop Production in the Arid Zone with Special Reference to Western Rajasthan,
W77-02869 1006 3F

Field Channels: A Key to Better Indian Irrigation,
W77-03062 1006 3F

Rainfall Erosivity Analysis of Soil Conservation Research Centre, Vasad(Gujarat),
W77-03627 1008 4D

Rates of Urea Hydrolysis in Five Soils of India,
W77-03632 1008 2G

A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Water Management in Linseed,
W77-04788 1010 3F

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

Area-Depth Relations for Frequency Values of Rainfall,
W77-06647 1014 2B

A Study to Forecast the Waves at Digha,
W77-06648 1014 2L

Imperatives of Water Resources Planning in the Developing Economy of India,
W77-07555 1015 6A

Geochemistry of Thermal Waters from Various Geothermal Provinces of India,
W77-08682 1018 2K

Effect of Sediment Load on Stable Sand Canal Dimensions,
W77-09020 1018 8B

An Approach to Reduce Water Consumption in Neighborhoods Through Reuse,
W77-09855 1020 5D

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

Solar Distillation in India,
W77-11087 1022 3A

Solar Energy Utilization for Arid Zone Development,
W77-11090 1022 3A

Crop Production Potentials in India--A Water Availability Based Analysis,
W77-11091 1022 3F

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Note on Evapotranspiration by Profile-Depletion Method in Deep Vertisol,
W77-11632 1023 2D

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

Weekly Water Balances of Normal and Severe Drought Years at Dharwar,
W77-12332 1024 2B

Markov-Dependent Geometric Models for Weather Spells and Weather Cycles-A Study,
W77-12554 1024 2B

Areal Extent of Southwest Monsoon Droughts in India,
W77-12555 1024 2B

Severe Floods in Jammu and Kashmir in August 1973,
W77-12556 1024 2B

INDIA (BIJAPUR)

A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

INDIA (RAJASTHAN)

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

Research on Efficient Water Use,
W77-12282 1024 2G

INDIA (WESTERN UTTAR PRADESH)

Ground Water Recharge in Western Uttar Pradesh,
W77-11932 1023 4B

INDIAN OCEAN

Calcium Carbonate Distribution in the Surface Sediments of the Indian Ocean,
W77-01919 1004 2L

Rainfall in the Seychelles 1941 to 1970,
W77-03096 1007 2B

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

Somali Current: Recent Measurements During the Southwest Monsoon,
W77-10128 1021 2L

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

INDIAN RESERVATIONS

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

The McCarren Amendment and Indian Tribes' Reserved Water Rights,
W77-10453 1021 6E

Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

Confiscation of Indian Winter's Rights in the Upper Missouri River Basin,
W77-11154 1022 6E

United States v Finch (Authority of Crow Tribe to Deny Non-Members Access to Its Land for Fishing Upheld).
W77-11183 1022 6E

Indian Water Rights.
W77-11447 1022 6E

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

INDIAN RIVER BAY (DELAWARE)
The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

INDIAN RIVER (FLA)
Aspects of Red Mangrove Reforestation in Florida,
W77-03950 1008 5G

INDIAN RIVER INLET (DEL)
A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

INDIAN WATER RIGHTS
Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

INDIANA
Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Distribution and Abundance of Fish Populations in the Middle Wabash River,
W77-05583 1011 5C

Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

History of the Phosphate Detergent Ban in Indiana,
W77-06378 1013 5G

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

Growth and Movement of Fish in the Vicinity of a Thermal Discharge,
W77-06766 1014 5C

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

Soil Formation on Loess in Southwestern Indiana: I. Loess Stratigraphy and Soil Morphology,
W77-07762 1016 2G

Soil Formation on Loess in Southwestern Indiana: II. Distribution of Clay and Free Oxides and Fragipan Formation,
W77-07763 1016 2G

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

Discriminant Analysis of Characteristics Determining Acceptance or Rejection of Nuclear Power,
W77-08109 1017 6B

Water Resources Data for Indiana, Water Year 1975,
W77-08162 1017 7C

Ground-Water Resources of Vanderburgh County, Indiana,
W77-08170 1017 4B

Delineation of the Boundaries of a Buried Pre-Glacial Valley with LANDSAT-1 Data,
W77-08415 1017 2G

Application of EREP, LANDSAT and Aircraft Image Data to Environmental Problems Related to Coal Mining,
W77-08429 1017 5A

Indiana Stream-Temperature Characteristics,
W77-08755 1018 7C

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

Stream Modeling and Waste Load Allocation,
W77-09169 1019 5B

INDIANA DUNES NATIONAL LAKESHORE
Model Analysis of Effects on Water Levels at Indiana Dunes National Lakeshore Caused by Construction Dewatering,
W77-00863 1002 4B

INDICATOR MICROBIAL POPULATIONS
The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

INDICATOR ORGANISMS
Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

INDICATOR SPECIES
Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

INDICATORS
Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

Program for Preventing and Eliminating Oil Pollution of the Buffalo River,
W77-01782 1004 5A

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

Content of Free Amino Acids in Irrigated and Unirrigated Typical Sierozem Soils, (In Russian),
W77-05045 1010 2G

Trichlorofluoromethane in Ground Water - A Possible Indicator of Ground-Water Age,
W77-05851 1012 2F

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

Biological Long-Term Investigations of Swedish Lakes,
W77-07998 1016 5C

Experience in Using Parasites for a Quantitative Evaluation of Fish Feeding, (In Russian),
W77-09400 1019 2I

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

The Recovery of Indicator Bacteria on Selective Media,
W77-11111 1022 5A

INDIRECT DIC DETERMINATIONS
The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

INDIRECT DISCHARGE MEASUREMENT
Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

INDOLE ACETIC ACID
Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

INDOLEACETIC ACID
Ozone and Vascular Tissue Differentiation in Plants,
W77-02439 1005 5C

INDOLES
Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

INDONESIA
Effects of Man's Activities on Erosion in Rural Environments and a Feasibility Study for Rehabilitation,
W77-02779 1006 4C

INDONESIA (COASTAL ZONE)
Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

INDUCED INFILTRATION
Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

INDUCTION FURNACE METHOD
The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

INDUS RIVER (PAKISTAN)
Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

INDUSTRIAL EFFLUENTS
Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

INDUSTRIAL GROWTH
Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

INDUSTRIAL MODELS
National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

INDUSTRIAL NITROGEN SOURCES
Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

INDUSTRIAL PLANTS
Offshore Industrial-Port Islands,
W77-00176 1001 5G

An Incident of Industrially Related Toxic Peripheral Neuropathy,
W77-02838 1006 5A

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

INDUSTRIAL PRODUCTION
Environmental Factors in Producing Supplemental Fuels,
W77-00390 1001 6G

Industrialist View,
W77-02050 1004 6G

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

American Petroleum Institute V Environmental Protection Agency (Challenge to EPA Standards for Refineries Under the FWPCA Amendments of 1972).
W77-08394 1017 6E

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

INDUSTRIAL WASTE
Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

INDUSTRIAL WASTE WATER
Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

INDUSTRIAL WASTES
Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

Biological Purification of the Izmail Board Mill Effluents (Biologicheskaya ochistka stochnykh vod Izmail'skogo Tsellyulozno-Kartonnogo Kombinata),
W77-00322 1001 5D

Diminution of Suspended Solids in Pulp and Paper Industry Effluents by Treatment with Chemical Coagulants (Diminuarea continutului de suspensii totale in apele reziduale din industria celulozei si hirtiei, prin tratarea cu agenti chimici coagulanti),
W77-00323 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Basf Completes Ten-Year Project for Cleaning up the Rhine,
W77-00403 1001 5D

Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

Measurement of Urban Runoff Petroleum,
W77-00678 1002 5B

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

Treatment of Aqueous Waste Solution,
W77-00694 1002 5D

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Effluent Treatment,
W77-00697 1002 5D

The Effluent Treatment Plant of BASF AG in Ludwigshafen/Rhine,
W77-00742 1002 5D

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

Effects of Selected Ions on the Removal of Chrome (III) Hydroxide,
W77-00744 1002 5D

Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

Brilliant Non-Cyanide Zinc Plating.
W77-00748 1002 5D

Fight Against Pollution and Nuisances in the French Steel Industry (Lutte contre les pollutions et nuisances dans la siderurgie Francaise),
W77-00749 1002 5D

Why Industrial Wastewater Pretreatment,
W77-00763 1002 5D

Effluent Treatment in the Paint and Surface Coating Manufacturing Industry,
W77-00764 1002 5D

Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

Removal of Organics from Water,
W77-00924 1002 5D

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

Apparatus for Treating Liquids,
W77-01210 1003 5D

Waste Water Treatment,
W77-01217 1003 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Chromium Removal and Recovery Process,
W77-01220 1003 5D

Heavy Metal Adsorbent Process,
W77-01226 1003 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

Environmental Poisons.
W77-01547 1003 5C

Hygienic Evaluation of the State of Protection of a Water Body from Pollution in the Region of an Industrial Complex, (In Russian),
W77-01555 1004 5D

Hygienic Characteristics of Wastewater Treatment Processes of Flax-Processing Plants, (In Russian),
W77-01556 1004 5D

Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Treatment of Heavy Metals in Wastewater,
W77-01649 1004 5D

Toxic Constituents in Woodroom Effluents,
W77-01667 1004 5B

Magnetization of Iron Chromium System,
W77-01709 1004 5D

Treatment of Condensates,
W77-01716 1004 5D

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

Purification of Industrial Waste Waters by Flotation,
W77-01740 1004 5D

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

Strategic Environmental Assessment System, Residuals Forecasting, An Analysis of Results,
W77-01958 1004 5G

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

Foamy Complex Formation for Removing and Recovering of Heavy Metal Ions in Dilute Solutions with N-Monodecanoyl Diethylenetriamine,
W77-01998 1004 5D

Continuous Treatment of Wool Wash Liquid - Efficiency Increased by Supplementary Closed Contaminant Treatment Circuit Linked to Liquid Cleaning Circuit.
W77-02002 1004 5D

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

Laundering and Dry-Cleaning,
W77-02005 1004 5D

National Effluent Standards,
W77-02061 1004 5G

Dynamics of the Content of Some Organic Toxic Substances in Plants Irrigated with Effluents of the Coal-Tar Chemical Industry, (In Russian),
W77-02263 1005 5C

Sanitary-Hygienic Aspects of the Use of New Preparations for Controlling Seepage in Water Bodies, (In Russian),
W77-02269 1005 4A

Estuarine Pollution Control: Objectives and Priorities,
W77-02343 1005 5G

Wastewater Reuse-Industrial, Municipal, or Both,
W77-02358 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Investigation of Commercial Chrome-Tanning Systems: Part VI. Full-Scale Trials of Chrome Liquor Recycling and the Importance of Salt Concentration,
W77-02594 1006 5D

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Air and Water Purification - with Acid Chlorite Solution.
W77-02613 1006 5D

The Purification of Industrial Effluent.
W77-02615 1006 5D

The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

Experience in Centralized Collection, Processing and Analysis of Sanitary-Hygienic Information, (In Russian),
W77-02908 1006 5A

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Water Quality in the Calumet Area. Conference on Pollution of Lower Lake Michigan, Calumet River, Grand Calumet River, Little Calumet River, and Wolf Lake, Illinois and Indiana.
W77-03382 1007 5B

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

Sludge Dewatering Pilot Plant Design, Part I,
W77-03416 1007 5D

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

The People's Lake,
W77-03594 1007 5G

An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

Treatment of Putrefactive Meat and Fish Waste -- for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Continuous Bowl-Type Centrifuges for the Clarification and Dehydration of Sludges from the Paper Industry (Centrifugeuses Continues A Bol Plein Pour Clarification et Deshydration des Boues Dans L'Industrie Papetiere).
W77-03613 1008 5D

Potentials of Using Spent Oxygen Bleaching Liquor in the Sulphite Process,
W77-03615 1008 5D

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

Evaluation of Wastewater Treatment Facilities.
W77-03619 1008 5D

In-Plant, Outside Pollution Evils, Energy Saving Top AATCC Concerns.
W77-03620 1008 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

Technical and Microeconomic Analysis of Cadmium and its Compounds,
W77-03963 1008 5B

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 16 Paint and Ink Formulation and Printing.
W77-04301 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries Category 7, Dairy Products.
W77-04302 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Industry Category 1a, Ore Mining and Milling.
W77-04303 1009 5G

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

Effluent and Water Treatment: The Economics of Lime Dosing and In-House Waste Treatment.
W77-04699 1010 5D

Recycling Sewage Waste Resources and Soil Amelioration,
W77-04827 1010 5E

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

BOD5 Decreased to Less Than 10 MG/Liter With Carbon Adsorption System,
W77-05496 1011 5D

The Depuration of Waste Waters from Food-Preserving Factories. Influence of Sodium Chloride Concentration on the Depuration Yield of an Extended-Aeration Activated-Sludge Plant (Sulla depurazione degli scarichi idrici delle industrie conserviere. Influenza della concentrazione del cloruro sodico sul rendimento di depurazione in un impianto biologico funzionate ad aerazione prolungata),
W77-05501 1011 5D

Environmental Management '76. An Overview of Federal and Provincial Activities - Environment Canada, The Big Clean-Up Goes On,
W77-05502 1011 5G

Industry and the Environment,
W77-05508 1011 5G

Industrial Water and Air Pollution Control,
W77-05512 1011 5D

Removal of Organic Impurities from Industrial Waste Water - by Adsorption with Organo Silicon. Compound Modified with Alkaline Solution of Shungite,
W77-05513 1011 5D

Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

Chemical Treatment of Water from a Surface Treatment Plant (Epuration par voie chimique des eaux residuaires d'un atelier de traitment de surface),
W77-05522 1011 5D

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Barrier Function of Waterpipe Installations, (In Russian),
W77-05643 1012 5D

Sample Collecting Apparatus,
W77-05652 1012 5A

Method and System for Purifying Liquid,
W77-05655 1012 5D

Method and Apparatus for Clarifying Contaminated Liquids,
W77-05664 1012 5D

Waste Treatment Advances: The Unox Process,
W77-05686 1012 5D

New Electroflocculating Process for Treating Industrial Waste Waters (Nuovo procedimento per il trattamento delle acque residue industriali con elettroflocculazione),
W77-05697 1012 5D

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

Physical-Chemical Treatment (Of Industrial Waste Waters),
W77-05713 1012 5D

Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

The Effect of Sulphates and Phosphates (Industrial Wastes) on the Mucopolysaccharides Content of the Gills of the Eel Anguilla Anguilla (L.),
W77-05857 1012 5C

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

Silver Recovery from Photographic Wash Waters by Ion Exchange,
W77-06212 1013 5D

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Water Pollution from Industrial Sources in Sweden and Recent Trends to Prevent It,
W77-06383 1013 5G

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Method and Apparatus,
W77-06446 1013 5D

Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

Polychlorinated Biphenyls.
W77-06554 1013 5C

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Activated Sludge Treatment of High Strength NSSC Mill Effluent,
W77-06945 1014 5D

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-06976 1014 5E

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Plastic Spheres for Waste Water Treatment.
W77-07028 1014 5D

Hygienic Effectiveness of Measures for Decontaminating Effluents at Petrochemical Plants, (In Russian),
W77-07069 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Toxic Waste Disposal,
W77-07209 1015 5G

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

Economic Aspects of Pollution Abatement, Part 1,
W77-07260 1015 6E

Legal Aspects of Changes Brought About by Buckeye's Pollution Abatement Program, Part II,
W77-07261 1015 6E

United States V Cutter Laboratories, Inc (Civil Liability of a Permittee for Whom no Industrial Effluent Limitations or Guidelines Exist).
W77-07274 1015 6E

Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

Water Quality Criteria and Waste Water Treatment,
W77-07522 1015 5D

Proceedings, Water Pollution Abatement Technology in the Pulp and Paper Industry, (1975),
W77-07562 1015 5D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

Industry Monitors County Storm Sewer Water,
W77-07933 1016 5D

Process for Eliminating Reactive Chlorinated Organic Compounds from Aqueous Solutions,
W77-08021 1016 5D

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

Kraft Mill Recovery System,
W77-08258 1017 5D

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-08278 1017 5D

Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

Taking Acres Out of Pollution-Control Plans,
W77-08283 1017 5D

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

Possibilities and Role of Biological Analysis in Evaluating the Degree of Pollution of Water Bodies, (In Russian),
W77-08430 1017 5A

Removing Soluble Metals from Waste Water,
W77-08591 1017 5D

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

Complying with Discharge Regulations,
W77-08954 1018 5G

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 1.
W77-09259 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 2,
W77-09260 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 3.
W77-09261 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 4.
W77-09262 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 5.
W77-09263 1019 5A

Activated Carbons for Effluent and Water Treatment,
W77-09409 1019 5D

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Industrial Effluent Surcharging: A Case Study of Kitchener, Ontario,
W77-09413 1019 5G

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

A Thermal Controller for the Short COD Determination,
W77-09415 1019 5A

Anaerobic Digestion of Rum Stillage,
W77-09416 1019 5D

'Not One Drop of Effluent'--Hydrochloric Acid Recovery from Spent Pickle Liquor.
W77-09417 1019 5D

Refinery Effluent Improved by Gravity-Pressure Dewatering,
W77-09420 1019 5D

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Treatment of Wool-Scouring Effluents with Inorganic Chemicals,
W77-09425 1019 5D

Industrial Water Use,
W77-09449 1019 6D

Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

Characterization of Spent Bleaching Liquors. Part 1, Spent Liquors from the Chlorine and Alkali Extraction Stages in the Prebleaching of Pine Kraft Pulp,
W77-09731 1020 5A

Application of Reverse Osmosis and Ultrafiltration to the Purification of Pulp and Paper Industry Effluents (Zastosowanie odwroconej osmozy i ultrafiltracji do oczyszczania sciekow z przemyslu celulozowo-papierniczego),
W77-09733 1020 5D

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Detoxification of Aqueous Waste Streams Containing Cyanide,
W77-09812 1020 5D

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Liquid Filtering Apparatus,
W77-09820 1020 5D

Gravitational Separator,
W77-09821 1020 5D

South Bend's Industrial Surveillance Waste Water Monitoring Program,
W77-09919 1020 5A

Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

Energy Recovery in Brewery Industry,
W77-10342 1021 5D

National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

Sodium Bicarbonate Treats Acidic Industrial Wastes,
W77-10347 1021 5D

Approach to Liquid Effluent Control in a Nitrogenous Fertilizer Plant,
W77-10370 1021 5G

The Push to Ease Water Rules.
W77-10446 1021 6E

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

The Effect of Urban Sewage and Industrial Wastes of Bialystok on the Purity and Biocoenosis of the Suprasl and Narew Rivers (Wplyw sciekow miejskich i przemyslowych m. Bialegostoku na czystosc i biocenoze rzeki Suprasli i Narwi),
W77-10593 1021 5C

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Sludge Treatment, Utilization, and Disposal,
W77-10647 1021 5D

Study of Dilution of Sulfite Mill Effluents in Large Rivers and Evaluation of Determining Factors (Issledovanie protsessa razbavleniya stokov sul'fit-tsellyuloznogo proizvodstva v usloviakh bolshikh rek i otsenka opredelyashchikh faktorov),
W77-10704 1021 5B

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-10721 1021 5D

Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Process for the Treatment of Acidic Waste Liquid Containing Dissolved Salts,
W77-11003 1022 5D

Method for Preventing Gelation of Thermosetting Resins in Waste Water,
W77-11004 1022 5D

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Methods of Recovering Wool Grease from Spent Wool Scouring Liquor,
W77-11013 1022 5D

PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

INDUSTRIAL WASTES

Louisiana Pacific Corporation and Crown Simpson Pulp Company (Requests for Variances from BPCTCA).
W77-11459 1022 5G

Characteristics of Poultry Processing Effluent,
W77-11531 1023 5B

Waste Heat Employment for Accelerated Rearing of Coho Salmon,
W77-11664 1023 5C

Removal of Mercury from Aqueous Solutions Employing Naval Stores Products,
W77-11916 1023 5D

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Waste Treatment of Fluoroborate Solutions,
W77-11924 1023 5D

Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

Anaerobic and Aerobic Treatment of Combined Potato Processing and Municipal Wastes,
W77-12079 1023 5D

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

Waste Water Treatment System.
W77-12451 1024 5D

The Toxicity of Ammonium Molybdate to Marine Invertebrates,
W77-12653 1024 5C

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

Sealed Sedimentation Device,
W77-12704 1024 5D

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Meat and Poultry Products Plant Liquid Effluent Regulations and Guidelines.
W77-12774 1024 5G

Screening Demonstration for Three Fish Processing Plant Effluents,
W77-12776 1024 5D

INDUSTRIAL WASTES RECOVERY

Control of Water Pollution - A Hidden Resource, (Beheer oor waterbesoedeling - 'n verborge hulpbron),
W77-01489 1003 5G

INDUSTRIAL WATER

An Overview: So You Want to Recycle your Wastewater. How Should You Begin. Is it Feasible,
W77-00079 1001 5D

Views from the Energy Industries.
W77-00548 1002 6D

Quenching Saldanha's Thirst.
W77-01473 1003 3E

Water in General and Its Industrial Use in Particular (Allgemeines ueber das Wasser und Besonderes ueber seinen industriellen Gebrauch),
W77-01661 1004 3E

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

Wastewater Reuse-Industrial, Municipal, or Both,
W77-02358 1005 5D

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

The Location of Industrial Water Users and Air Pollution: An Overlooked Relationship,
W77-02877 1006 5B

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

Method and Apparatus,
W77-06446 1013 5D

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Year Round Cooling Water from the Cold Weather of Winter,
W77-08251 1017 5D

Industrial Water Use,
W77-09449 1019 6D

A Unique Means of Obtaining Sea-Water,
W77-09692 1020 8E

Determination of the Degree of Accumulation of Residual Liquor Components During Recycling of the Liquor (Opredelenie stepeni nakopleniya komponentov posledrozhzhevoi brazhki pri vozvrate ee v proizvodstvennyi tsikl),
W77-10697 1021 3E

Industrial Use of Brackish and Saline Water in the Haifa Bay Area,
W77-11077 1022 3C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

INDUSTRIAL WATER (USE)

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

INDUSTRIAL WATER USES

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

INDUSTRIAL WATERS

Effect of Industrial Activity on River Runoff in the Central Ural,
W77-04258 1009 4C

INDUSTRIES

Views from the Energy Industries.
W77-00548 1002 6D

Water Pollution Control Act of 1972, Economic Impacts, Grain Milling.
W77-01954 1004 5G

Panel 'D' - Power Plant and Industrial Emissions and Effluents,
W77-02055 1004 6G

Economic Effects of Enforcement Variables on Commercial Oil Pollution Control Strategy.
W77-02418 1005 5G

Water Pollution Control Act of 1972, Economic Impacts, Direct and Cumulative Industry Impacts.
W77-04304 1009 5G

Market Demand and General Location Options,
W77-05378 1011 6D

Process Description and Adaptation Study,
W77-05379 1011 5G

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

Industrial Water Use,
W77-09449 1019 6D

ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

INERTIA

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

Added Mass of Pile Group,
W77-09018 1018 8B

INERTIAL OSCILLATIONS

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

INFANT MORTALITY (US)

Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

INFECTION

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Risk of Communicable Disease Infection Associated with Waste Water Irrigation in Agricultural Settlements,
W77-03485 1007 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

INFECTIOUS HEPATITIS
Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

INFECTIOUS PANCREATIC NECROSIS
Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

INFECTIOUS PANCREATIC NECROSIS VIRUS (IPNV)
The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

INFILTRATION
Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Let's Consider Land Treatment, Not Land Disposal,
W77-00614 1002 5D

Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

Effect of Degree of Soil Profile Disruption on Plant Growth and Soil Water Extraction,
W77-02286 1005 2G

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

Flow Data Collection for Infiltration-Inflow Analysis,
W77-02334 1005 5D

Nutrient Distributions in a Spodosol During Corn Growth,
W77-02516 1005 5B

Distributions of 2,4-D and Water in Soil During Infiltration and Redistribution,
W77-02542 1005 5B

Infiltration and Water Movement in an in Situ Swelling Soil During Prolonged Ponding,
W77-03281 1007 2G

Infiltration/Inflow Improvements in the Oyster Bay Sewer District,
W77-03401 1007 5D

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Conducting a Sewer Infiltration/Inflow Survey to Eliminate 20 MGD,
W77-04658 1010 2G

A Distributed Converging Overland Flow Model 2. Effect of Infiltration,
W77-04745 1010 2A

The Different Forms of Moisture Profile Development During the Redistribution of Soil Water After Infiltration,
W77-04749 1010 2G

Infiltration Analysis and Perturbation Methods 2. Horizontal Absorption,
W77-04750 1010 2G

Infiltration Analysis and Perturbation Methods 3. Vertical Infiltration,
W77-04751 1010 2G

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

Theoretical Analysis of Wetting Front Instability in Soils,
W77-04768 1010 2G

Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

The Pulsed Irrigation Principle for Controlled Soil Wetting,
W77-04770 1010 2G

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

Soil Water Movement: Infiltration, Redistribution, and Groundwater Movement,
W77-04776 1010 2G

Percolating Effluent into Ground Reduces Color at Missoula Mill,
W77-04824 1010 5D

Infiltration Through Soil with a Slightly Permeable Buried Membrane,
W77-04887 1010 2G

A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

Distributions of Water and Herbicide in Lakeland Sand During Initial Stages of Infiltration,
W77-05180 1011 5B

Derivation of Equations for Rainfall Infiltration,
W77-05182 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

The Concise Formulation of Diffusive Sorption of Water in a Dry Soil,
W77-05340 1011 2G

On Solving the Infiltration Equation--A Comparison of Perturbation and Iterative Techniques,
W77-05348 1011 2G

Experimental Study of Wetting front Instability Induced by Sudden Change of Pressure Gradient,
W77-05433 1011 2G

Influence of Soil Bulk Density on Horizontal Water Infiltration,
W77-05535 1011 2G

Simplified Techniques for Determining Water Conducting and Water Storage Properties of Soils,
W77-05853 1012 2G

Management Model for Wastewater Disposal on Land,
W77-05923 1012 5E

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Time-Dependent Linearized Infiltration: III. Strip and Disc Sources,
W77-06011 1012 3F

Flow of Water in Unsaturated Uniform and Layered Porous Materials,
W77-06235 1013 2G

Infiltration of Tritium-Labeled Water in Two Subsoil Loosened Greyloam-Pseudogleys, (In German),
W77-06462 1013 2G

Investigations on the Humidity and Infiltration Relations in Soils with Different Subsoil Water Conditions with and Without Crops, (In German),
W77-06541 1013 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Solution of Equation for Two-Dimensional Infiltration Problems,
W77-07142 1015 2G

Suction Head at Wet Front in Unsaturated-Flow Problems--A New Definition,
W77-07144 1015 2G

INFILTRATION

Solutions to Green-Ampt Infiltration Equation,
W77-07553 1015 4A

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Flow Characteristics During Infiltration into a Horizontal Sand Column,
W77-08826 1018 2G

Infiltration Equations for Simple Soil Systems,
W77-09025 1018 2G

Soil Air Pressure Effects on Route and Rate of Infiltration,
W77-09293 1019 2G

Vertical Infiltration in Dry Soil,
W77-09351 1019 2G

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

Use of the Green-Ampt Equation with Variable Conductivity,
W77-09430 1019 2G

A Portable Rainfall Simulator for Erodibility and Infiltration Measurements on Rugged Terrain,
W77-09441 1019 2J

New Sewer System Resists Infiltration.
W77-09843 1020 5D

Virus and Bacteria Removal from Waste Water by Rapid Infiltration Through Soil,
W77-09860 1020 5D

A Comparison of Numerical Simulation Models for One-Dimensional Infiltration,
W77-10310 1021 2G

Analysis of the Movement of Water from Recharge Channels and Pits,
W77-10379 1021 4B

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Wastewater Collection,
W77-10549 1021 5D

Transport of Nitrate Ion in Unsteady, Unsaturated Flow in Porous Media,
W77-10595 1021 2G

Urban Runoff and Combined Sewer Overflow,
W77-10600 1021 4A

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Estimating the Effective Capillary Pressure in the Green and Ampt Infiltration Equation,
W77-11227 1022 2G

Experimental Studies of Wetting Front Instability Induced by Gradual Change of Pressure Gradient and by Heterogeneous Porous Media,
W77-11233 1022 2G

Infiltration and Redistribution of Water in Soils, (In Dutch),
W77-11471 1022 2G

The Purification of Wastewater with the Aid of Rush or Reed Ponds,
W77-11695 1023 5G

Rhinelander Solves I and I Problems,
W77-11754 1023 5D

Heat and Vapor Movement During Infiltration into Dry Soils,
W77-11818 1023 2G

Non-Uniform Infiltration Under Potato Canopies Caused by Interception, Stemflow, and Hilling,
W77-11952 1023 3F

Effect on Irrigation Water Quality, Sulfuric Acid and Gypsum on Plant Growth and on Some Physical and Chemical Properties of Pima Soil,
W77-11998 1023 3C

The Philip Equation: A Feasible Model for Infiltration Estimation on Small Rangeland Watersheds,
W77-12274 1024 2G

Urban Runoff Digital Computer Model,
W77-12316 1024 2E

Heavy Rains, Poor Soil Force Internal Sewer Repair.
W77-12459 1024 8F

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

Maryland Highway Drainage Study: Volume IV. Overland Flow on Areas Subject to Infiltration Losses,
W77-12547 1024 4C

Solutions to Green-Ampt Infiltration Equation,
W77-12578 1024 2G

Numerical Analysis of Two-Dimensional Infiltration and Redistribution,
W77-12806 1024 2G

INFILTRATION/INFLOW

Infiltration/Inflow Improvements in the Oyster Bay Sewer District,
W77-03401 1007 5D

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Simulated Field Study for I/I Analysis,
W77-04662 1010 5D

INFILTRATION LAGOONS

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

INFILTRATION RATES

Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Derivation of Equations for Rainfall Infiltration,
W77-05182 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Infiltration Equations for Simple Soil Systems,
W77-09025 1018 2G

Vertical Infiltration in Dry Soil,
W77-09351 1019 2G

Effects of Siltation on Rates of Recharge,
W77-10378 1021 4B

Irrigation Trial with Morro Bay Wastewater,
W77-10623 1021 5D

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Infiltration Characteristics from Anaerobic Lagoons,
W77-11974 1023 5B

Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

INFILTRATION TESTS
Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

INFILTROMETERS
Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

INFLATION (ECONOMIC)
Coping with Increasing Costs,
W77-00172 1001 3D

INFLOW
The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Flow Data Collection for Infiltration-Inflow Analysis,
W77-02334 1005 5D

Infiltration/Inflow Improvements in the Oyster Bay Sewer District,
W77-03401 1007 5D

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Conducting a Sewer Infiltration/Inflow Survey to Eliminate 20 MGD,
W77-04658 1010 2G

Simulated Field Study for I/I Analysis,
W77-04662 1010 5D

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

Optimal Filtering Techniques for Hydrological Forecasting,
W77-09111 1019 2E

Deep Water Renewal and Associated Processes in North Norway,
W77-09947 1020 2L

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

Wastewater Collection,
W77-10549 1021 5D

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

Rhinelander Solves I and I Problems,
W77-11754 1023 5D

Effect of Openings on Inflow into Corrugated Drains,
W77-12305 1024 8B

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

INFLOW FORECASTING
Optimal Filtering Techniques for Hydrological Forecasting,
W77-09111 1019 2E

INFLUENCE MODEL
Linear Models for Groundwater Management,
W77-01180 1003 4B

INFLUENT STREAMS
Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

INFORMATION DISSEMINATION
Information Dissemination in the Water Resources Field,
W77-01191 1003 10D

1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

INFORMATION EXCHANGE
Effectiveness of Information Transfer Through Water Resources Researcher/User Group Interaction,
W77-00151 1001 10D

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W77-00353 1001 2L

PIANC,
W77-00976 1002 6E

Information Dissemination in the Water Resources Field,
W77-01191 1003 10D

Publications List of the Idaho Water Resources Research Institute,
W77-03154 1007 10C

1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

Directory of Local Assistance Centers of the National Water Data Exchange (NAWDEX),
W77-04225 1009 7C

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Information Transferral within a Distributed Data Base Via a Generalized Mapping Language,
W77-07813 1016 6A

Problems in the Adoption of New Ideas and Practices,
W77-11042 1022 6B

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

INFORMATION RETRIEVAL
User's Guide for Hydrologic Information Storage and Retrieval System,
W77-00161 1001 10B

Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Data Processing: A Review of the Role of the Ministry of Works and Development,
W77-00378 1001 7C

Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

Information Dissemination in the Water Resources Field,
W77-01191 1003 10D

Experience in Centralized Collection, Processing and Analysis of Sanitary-Hygienic Information, (In Russian),
W77-02908 1006 5A

INFORMATION RETRIEVAL

A Water Resources Data Management System for South Carolina,
W77-03733 1008 7C

Directory of Local Assistance Centers of the National Water Data Exchange (NAWDEX),
W77-04225 1009 7C

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

Municipal Information Systems: Evaluation of Policy Related Research. Volume 2. Computer Utilization in Local Government,
W77-07631 1016 6B

A Computerized Information System Relating to Arizona's Water Resources,
W77-08307 1017 7C

A Guide to the Use of HISARS -- A Hydrologic Information Storage and Retrieval System,
W77-08445 1017 7C

Development of a Hydrologic Information Storage and Retrieval System,
W77-08609 1018 7C

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W77-08610 1018 7C

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W77-09256 1019 10C

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W77-09344 1019 10C

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W77-09345 1019 10C

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W77-09346 1019 10C

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

INFORMATION STORAGE AND RETRIEVAL

Information Storage and Retrieval for Evaluation of Irrigation Potential,
W77-12723 1024 7C

INFORMATION SYSTEM

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

INFORMATION SYSTEMS

Environmental Data Management,
W77-01347 1003 6G

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Demonstration of a State Water Quality Management Information System,
W77-04021 1008 5G

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

A Computerized Information System Relating to Arizona's Water Resources,
W77-08307 1017 7C

Philadelphia's Water System Automation Plan,
W77-08864 1018 5F

INFORMATION TRANSFER

Effectiveness of Information Transfer Through Water Resources Researcher/User Group Interaction,
W77-00151 1001 10D

ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

INFORMATION TRANSFERRAL

Information Transferral within a Distributed Data Base Via a Generalized Mapping Language,
W77-07813 1016 6A

INFRARED RADIATION

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

INFRARED SCANNERS

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

INFRARED SPECTROPHOTOMETRY

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

INFRARED SPECTROSCOPY

The Mechanism of Phosphate Fixation by Iron Oxides,
W77-00291 1001 2K

INFRASTRUCTURE

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

INFUSORIA (PLANKTONIC)

Planktonic Infusoria from the Volga River, (In Russian),
W77-12397 1024 2H

INHIBITION

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Enzyme Kinetics--A Review with Emphasis on Inhibition of Enzymes,
W77-07732 1016 5B

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-10728 1021 5C

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

INHIBITION RATES

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

INHIBITORS

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as

Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

INHOMOGENEOUS POROUS MEDIA

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

INHOMOGENEOUS POROUS MEDIUM

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-04396 1009 2G

INITIAL COSTS

Sewer Cleaning System Combines Versatility, Low Initial Cost,
W77-04664 1010 8G

INJECTION

Subsurface Injection-How Much Does It Cost,
W77-07011 1014 5E

Miami Plans Injection Well for Wastewater Disposal.
W77-10619 1021 5E

Oxygen Injection Blows New Life Into Drought Hit Sewage Treatment Works,
W77-11702 1023 5D

A Laboratory Study of Waste Injection into a Ghybenherzberg Groundwater System Under Dynamic Conditions,
W77-12267 1024 8B

INJECTION WELLS

Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

Deep Well Wastes May be Water Hazards.
W77-01083 1003 5B

A Model for Calculating Effects of Liquid Waste Disposal in Deep Saline Aquifers, Part I--Development.
W77-02010 1004 5B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

Waste Injection into Stratified Ground Water Bodies,
W77-06855 1014 5B

Deep Well Injection: Sweeping the Problem Under the Carpet,
W77-07295 1015 5G

Effect of Dip on the Storagé of Fresh Water (or the Disposal of Waste) in a Saline Aquifer,
W77-08288 1017 4B

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-10264 1021 4B

Disposal of Salt Water During Well Construction, Problems and Solutions,
W77-10519 1021 5G

Miami Plans Injection Well for Wastewater Disposal.
W77-10619 1021 5E

Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

EPA Jurisdiction Over Well Injection Under the Federal Water Pollution Control Act,
W77-11164 1022 5G

Microbiology of Waste Treatment, (Literature Review),
W77-11753 1023 5F

Storage of Treated Sewage Effluent and Storm Water in a Saline Aquifer, Pinellas Peninsula, Florida,
W77-12377 1024 5E

INJUNCTION

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

INJUNCTIONS (MANDATORY)

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

INJUNCTIONS (PROHIBITORY)

Environmental Protection Through the Common Law,
W77-08133 1017 6G

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

INJUNCTIVE RELIEF

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

The People's Lake,
W77-03594 1007 5G

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Marine Sanitation.
W77-03720 1008 6E

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Water Resources Commission V. Connecticut Sand and Stone Corporation (Judicial Review of Administrative Factual Determination).
W77-08404 1017 6E

Florida's Barge Canal Prospects for the Future,
W77-08964 1018 4A

INJUNCTIVE RELIEF

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

Homeowners Emergency Life Protection Committee V. Lynn (Enjoining of Major Federal Activity with Alleged Inadequate Environmental Impact Statement).
W77-09003 1018 6E

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

State V Wilson (Seasonally Flowing Stream Not Constantly Flowing Stream).
W77-10486 1021 6E

INJURY-MITIGATING MEMBRANE FILTRATION (IM-MF) TECHNIQUE

Membrane Filter Technique for the Quantification of Stressed Fecal Coliforms in the Aquatic Environment,
W77-11736 1023 5A

INK FORMULATION AND PRINTING

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 16 Paint and Ink Formulation and Printing.
W77-04301 1009 5G

INKS LAKE STATE PARK (TX)

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

INLAND LAKE DEMONSTRATION PROJECT

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Inland Lake Demonstration Project,
W77-06599 1013 5G

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

INLAND LAKES DEMONSTRATION PROJECT

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

INLAND STEEL COMPANY

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

INLAND WATERS

Inland Waters. Monographs from Limnology and Related Areas, Vol. 26, Part 1. The Zooplankton of Inland Waters,
W77-08861 1018 2H

INLAND WATERWAYS

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

Bay Springs Lake Water Quality Study,
W77-06087 1012 5B

Proceedings of the Seventh Dredging Seminar.
W77-07342 1015 8D

Salvops-Hopper Dredge 'A. Mackenzie',
W77-07343 1015 8D

Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

User Charges in Inland Navigation Policy,
W77-08604 1018 6C

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Survey of Fish Impingement at Power Plants in the United States, Volume II. Inland Waters,
W77-11126 1022 8I

Corps Games in Mid-America,
W77-11473 1022 6E

Coastal Waterway Act of 1975.
W77-12907 1024 6E

INLAND WETLAND IDENTIFICATION

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

INLETS (WATERWAYS)

Tidal Prism - Inlet Area Relationships,
W77-00664 1002 2L

Use of Outer Bars of Inlets as Sources of Beach Nourishment Material,
W77-01708 1004 2L

A Preliminary Tidal Exchange Experiment in Masset Inlet,
W77-01916 1004 2L

Notes on Tidal Inlets on Sandy Shores,
W77-02504 1005 2L

Oregons's Estuaries,
W77-02593 1006 2L

Sebastian Inlet. Glossary of Inlets Report No. 3,
W77-02673 1006 2L

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

State v Lucius (Sabine River Authority Regulation of Access by Water to Lake).
W77-05074 1010 6E

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

Characteristics of Water Flow at the North End of the Wassaw Barrier Island Complex. Wassaw Island Erosion Study, Part II,
W77-06939 1014 2J

The Citizen's Guide to North Carolina's Shifting Inlets,
W77-09327 1019 2L

A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

Matanzas Inlet Glossary of Inlets Report No. 5,
W77-11051 1022 2L

Flow Dynamics and Sediment Movement in Lockwoods Folly Inlet, North Carolina,
W77-12913 1024 2L

INNER COASTAL PLAIN (SC)

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

INORGANIC COMPOUNDS

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

Treatment of Leachates from Sanitary Landfills,
W77-05331 1011 5D

Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

INORGANIC CONSTITUENTS

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

INORGANIC COPPER

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

INORGANIC PESTICIDES

Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

INORGANIC PHOSPHORUS

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

INORGANIC POLLUTANTS
Inorganic Pollution from Forests and Rangelands,
W77-06239 1013 5B

INPUT-OUTPUT
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

INPUT-OUTPUT ANALYSIS
A Balanced Regional Input-Output Model for Identifying Responsibility for Pollution Created by Industries Which Serve National Markets,
W77-00382 1001 5G

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

The Generation of Residual Flows in Norway: An Input-Output Approach,
W77-06698 1014 5G

An Input-Output Analysis of Environmental Preservation,
W77-06706 1014 6G

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

A Predictive Phosphorus Model for Lakes - Development and Testing,
W77-08930 1018 5C

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

INSECT CONTROL
A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

INSECT DEVELOPMENT INHIBITORS
Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

INSECT DRIFT DENSITY
The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

INSECT INFESTATIONS
The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

INSECTICIDE
Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

INSECTICIDES
The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

Environmental Poisons.
W77-01547 1003 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Studies on the Japanese Chironimid Midges as a Nuisance: I. Larvicidal Effects of Some Organophosphorus Insecticides Against the Last Larvae of Chironomus Yoshimatsui Martin and Sublette, (In Japanese),
W77-04592 1009 5C

Kinetics of Chemical Degradation of Malathion in Water,
W77-04800 1010 5B

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

The Effect of the Use of Pesticides and Fertilizers in the Water Protection Zone with Sources of Artificial Replenishment of Underground Water Reserves, (In Russian),
W77-07107 1015 5B

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

INSECTICIDES

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

INSECTS

The Biological Control of Alligatorweed,
W77-00714 1002 5G

Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

The Mining Fauna in Four Macrophyte Species in Mikolajskie Lake,
W77-06688 1014 5C

Insect Fauna of Some Virginia Thermal Streams,
W77-11476 1022 5C

INSPECTION

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

A Light in the Water.
W77-04282 1009 8G

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Cementing Oil and Gas Wells, Part 2 - Casing Inspection and Pipe Handling Methods, Including Thread Make-Up Control,
W77-08327 1017 8F

Inspection and Repair of Main-Sewers (L'Inspection et la Reparation des Collecteurs d'Egouts),
W77-10541 1021 5D

INSTALLATION

Installation Tips on Large Submersibles,
W77-07289 1015 8C

INSTITUTION CONSTRAINTS

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

INSTITUTIONAL CONFLICTS

An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

INSTITUTIONAL CONSTRAINRS

Experts Cling to Water Myths,
W77-02120 1005 3F

INSTITUTIONAL CONSTRAINTS

Institutional Problems of the Small Treatment Plant,
W77-00010 1001 5D

Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

Fisheries Management and Social Context: The Case of the Maine Lobster Fishery,
W77-00383 1001 6B

Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

Developments in Water Quality and Land Use Planning: Problems in the Application of the Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Improving Institutional Arrangements for Water Development in the State of Washington: Developmental and Environmental Trade-Offs and Constraints,
W77-08284 1017 6E

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

Institutionalized Inefficiency: The Unfortunate Structure of Colorado's Water Resource Management System,
W77-11768 1023 6E

The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

INSTITUTIONAL WATER DEMAND

Development of Commercial/Institutional Parameter Units for the Main II System of Water Demand Forecasting,
W77-04182 1009 6D

INSTITUTIONS

A Sludge Policy for the 70's,
W77-00026 1001 5E

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Flood Standards - The Role of Engineering Institutions,
W77-00935 1002 6F

Inland Water Pollution.
W77-01697 1004 5G

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

Water Problems in the Colorado River Basin: Legal and Institutional Framework,
W77-03830 1008 5G

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

Inland Lake Demonstration Project,
W77-06599 1013 5G

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

Improving Institutional Arrangements for Water Development in the State of Washington: Developmental and Environmental Trade-Offs and Constraints,
W77-08284 1017 6E

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

Institutions for Water Management in a Changing World,
W77-11466 1022 6E

Institutionalized Inefficiency: The Unfortunate Structure of Colorado's Water Resource Management System,
W77-11768 1023 6E

INSTREAM AERATION

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

INSTREAM EFFECTS

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

INSTREAM FLOW

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

INSTREAM FLOW REGIMENS

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

INSTREAM USES

Recent Developments in the Recognition of Instream Uses in Western Water Law,
W77-06044 1012 6E

INSTRUMENTATION

Respirometric Determination of BOD,
W77-00095 1001 5A

The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

Instrumentation in the Water Industry.
W77-00601 1002 5A

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

A Simple Tube-Type Water Profile Sampler,
W77-00641 1002 5A

An Inexpensive Thermistor Flowmeter for Aquatic Biology,
W77-00645 1002 7B

Evaluation of In Situ Shear Wave Velocity Measurement Techniques,
W77-00737 1002 8D

A Time Related Automatic Total-Load Sediment Sampler,
W77-00843 1002 2J

Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

Oceanographic Apparatus,
W77-01214 1003 2L

Dynamically Balanced Apparatus for Water Borne Instruments,
W77-01232 1003 7B

Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

A Recording Soil Moisture Tensiometer,
W77-01429 1003 2G

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Field Monitoring Equipment for Hydrological Studies in a Small Catchment,
W77-01936 1004 7B

Disasters Caused by Flash Floods,
W77-01937 1004 2E

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Instrumentation for Field Studies of Urban Runoff,
W77-02749 1006 5A

The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

Electronic Sensor for Low-to-Medium Windspeeds,
W77-03099 1007 7B

A Review of Hail-Measuring Instruments,
W77-03101 1007 2B

An Evaluation of Selected Instruments used to Measure the Moisture Content of Hardened Concrete,
W77-03295 1007 8F

Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

An Electrical Conductivity Probe for Determining Soil Salinity,
W77-04763 1010 2G

Boise Measures Sludge Ultrasonically,
W77-04825 1010 5D

Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Radio-Echo Power Profiling,
W77-05430 1011 2C

Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

A Note on Plexiglas HS Flumes,
W77-05965 1012 5A

Process Control and Data Processing in Sewage Treatment Plants,
W77-06168 1013 5D

An Automated Rapid Sediment Analyser (ARSA),
W77-06318 1013 2J

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Optic Device for Observations of Small Organisms Under Water, (In Russian),
W77-06926 1014 7B

A Universal Calibration Equation for Price Meters and Similar Instruments,
W77-06943 1014 7B

Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

New Programs Improve Sensitive Areas of Water and Sewer Systems,
W77-06995 1014 8G

INSTRUMENTATION

A Light-Weight and Cheap Depth Sampler,
W77-07155 1015 5A

Digital Raingage Recorder,
W77-07172 1015 2B

Acoustic Measurement of Sediment Transport,
W77-07338 1015 2J

Fritted Glass Bead Materials as Tensiometers and Tension Plates,
W77-07760 1016 2G

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

The Use of Lysimeters in the Hydrological Investigation of the Unsaturated Zone,
W77-07780 1016 2D

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

Waste Water Plants Use Less Instrumentation than Related Industries,
W77-07872 1016 5D

Automatic Analysis Contributes to Waste Water Treatment Efficiency,
W77-07909 1016 5A

Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

A Controllable Automated Environmental Data Acquisition and Monitoring System,
W77-08441 1017 7C

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

Instrumentation Improves Waste Water Treatment Plant Control,
W77-08642 1018 5D

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

Portable Automated Mesonet in Operation,
W77-09131 1019 2B

Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

A Simple Continuous Ice Crystal Replicator for Use in Laboratory Cloud Chambers,
W77-09360 1019 2B

Acoustical Wave Flowmeter,
W77-09809 1020 7B

Making Sure of Pipeline Performance,
W77-10068 1020 8A

Apparatus for the Automatic Determination of Oxygen Consumption in Fish,
W77-10217 1021 5A

Automated Hydrography for Channel Dredging,
W77-10316 1021 8B

New Instrument Expands Water Well Technology,
W77-10521 1021 8G

Analysis of Data from Instrumentation Program, Columbia Lock,
W77-10783 1021 8G

Analytical Evaluation of Techniques for Use of a Laser Doppler Velocimeter to Measure Flow and Turbulence,
W77-10784 1021 2E

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Apparatus for Collecting Deep-Sea Sediment Pore Water,
W77-10881 1022 7B

Crop Temperature Reveals Stress,
W77-11434 1022 2L

Operation Control.
W77-11498 1022 5D

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

Instrumentation and Automation Experiences in Wastewater-Treatment Facilities,
W77-11760 1023 5D

Selected Applications of Instrumentation and Automation in Wastewater-Treatment Facilities,
W77-11761 1023 5D

Metering Total Oxygen Demand,
W77-12416 1024 5A

Digital Monitors for Ohio's Wells.
W77-12675 1024 4B

Electrical Methods of Determining Soil Moisture Content,
W77-12818 1024 2G

INSULATION

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

INSULATION BOARDS

Hydrolysis of Press Waste Waters from the Manufacture of Fiber (Insulation) Boards (Contributii la studiul procesului de hidroliza a apelor de presa din circuitul de fabricatie al P.F.L.),
W77-00324 1001 5D

INSULATION FIBERGLASS

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

INSURANCE

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Lansco, Inc. v Department of Environmental Protection (Insuror's Liability for Cost of Clean Up of Oil Spills).
W77-09574 1019 6E

INTAKE STRUCTURES

Falls Lake Water-Quality Study; Hydraulic Laboratory Investigation,
W77-02941 1006 5B

Frazil--The Invisible Strangler,
W77-07177 1015 2C

INTAKES

The Design and Test of a Safe and Effective Storm-Sewer Inlet,
W77-02186 1005 8B

An Evaluation of the Impingement of Fishes at Four Duke Power Company Steam-Generating Facilities,
W77-05595 1011 5C

Marine Life Protector,
W77-08262 1017 8I

INTAKES STRUCTURES

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

INTEGER LINEAR PROGRAMMING

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

INTEGER PROGRAMMING

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

INTEGRAL TRANSFORMS

Analytic Solutions for Drawdowns in Rectangular Artesian Aquifers,
W77-03854 1008 4B

INTEGRATED CONTROL MEASURES

A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

Methods for the Evaluation of the Results of the Self-Control-Measurements Carried Out By the Sewage Treatment Plant Operators (Verfahren zur Auswertung der Betriebsergebnisse von Klaerwerken),
W77-11734 1023 5A

INTENTIONAL TORTS

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

INTER-AGENCY COOPERATION
Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

Water-Resources Investigations in Kentucky, 1976.
W77-09078 1018 7C

Water-Resources Investigations in Wisconsin, 1976.
W77-09079 1018 7C

Water-Resources Investigations in Wyoming, 1976.
W77-10575 1021 7A

INTER-BASIN TRANSFER
Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

Determination of Water-Resources Policies in Arid Lands,
W77-08453 1017 6B

INTER-BASIN TRANSFERS
83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

Study of Sanitary Problems in Connection with Inter-Basin Transfer of River Runoff, (In Russian),
W77-02905 1006 5C

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

INTERAGENCY COMMITTEE ON MARINE SCIENCE
The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

INTERAGENCY COOPERATION
Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

INTERCEPTION
Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

Rainfall Interception by Cool-Desert Shrubs,
W77-01900 1004 3B

Subsurface Flow Interception by a Logging Road in Mountains of Central Idaho,
W77-01948 1004 4C

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

INTERCEPTION LOSS
A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

INTERCEPTOR SEWERS
Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

Kaministiquia Interceptor Sewer Completed in Thunder Bay.
W77-00076 1001 5D

Austin's 11 Mile Sewer Tunnel Reflects Sound Economic, Environmental Alternatives,
W77-02327 1005 5D

Sewerage for a Rural Resort Area,
W77-06987 1014 5D

The Conception, Design, and Construction of Metropolitan Toronto Mid-Toronto Sewer,
W77-07888 1016 8B

Chicago Cleanup: Industry Outdoes the City.
W77-10447 1021 6E

New Interceptor Sewer is a 'Prime Time' Project,
W77-10546 1021 5D

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Water Pollution Abatement Program Serves Independence, Missouri,
W77-12432 1024 5D

North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

INTERDISCIPLINARY ANALYSIS
Systems Approach to Water Management.
W77-05008 1010 6A

INTEREST
Principles of Determining a Social Discount Rate,
W77-02518 1005 6B

INTERFACES
The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

The Coastal Interface: Who Owns What,
W77-04362 1009 6E

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

Interface Between Two Dissimilar Fluids Beneath a Sheetpile Cofferdam,
W77-12807 1024 8B

INTERFLUVES
Chemical Activation of Groundwaters of the Ingul-Visun' Interfluve within the Yavkinsk Irrigation System, (In Russian),
W77-05952 1012 2G

INTERMEDIATE REGIONAL FLOOD
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

INTERMITTENT PROCESS
Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

INTERMITTENT SNOWPACKS
Computer Simulation of Snowmelt,
W77-05735 1012 2C

INTERMONTANE LAKES
Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

INTERMUNICIPAL TAX SHARING
Flood Management Study.
W77-06952 1014 6F

INTERNAL DRAINAGE
Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

INTERNAL EROSION (PIPING)
Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

INTERNAL OSCILLATIONS
Characteristics of Internal Oscillations in Lake Ontario,
W77-10331 1021 2H

INTERNAL-PLANT STRESS
Water Use on Rangelands,
W77-00846 1002 3B

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

INTERNAL-PLANT STRESS RANGE
Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

INTERNAL TIDES
Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

INTERNAL WAVES
Geographical Variability of the Internal Wave Field: A Search for Sources and Sinks,
W77-00135 1001 2L

Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

Spectra and Coherence of Wind-Generated Internal Waves,
W77-03982 1008 2L

Coastal-Trapped Waves in a Continuously Stratified Ocean,
W77-04267 1009 2L

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

Short-Period Internal Waves in the Vicinity of a River-Induced Shear Zone in a Fjord Lake,
W77-11609 1023 2H

Internal Free Oscillations in Lake Ontario,
W77-11800 1023 2H

INTERNATIONAL AGREEMENTS
Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

Deepwater Port Act of 1974: Some International and Environmental Implications,
W77-10456 1021 6E

INTERNATIONAL AID
In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

INTERNATIONAL BOUND AND WATER COMM
Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

INTERNATIONAL BOUNDARY AND WATER COMMISSION
Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

Restless River: International Law and the Behavior of the Rio Grande,
W77-08384 1017 6E

INTERNATIONAL COMMISSIONS
PIANC,
W77-00976 1002 6E

The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
W77-02845 1006 5G

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

A View of Caracas,
W77-05032 1010 6E

In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

INTERNATIONAL CONFERENCE
Proceedings of the International Conference on Global Water Law Systems, September 1-9, 1975, Valencia, Spain.
W77-08966 1018 6E

INTERNATIONAL CONFERENCE ON MARINE POLLUTION
The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

INTERNATIONAL FIELD YEAR FOR THE GREAT LAKES
IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

INTERNATIONAL HYDROLOGIC DECADE
Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

INTERNATIONAL HYDROLOGICAL DECADE
Hydrologic Engineering Methods for Water Resources Development, Volume 5, Hypothetical Floods,
W77-03104 1007 8B

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

INTERNATIONAL JOINT COMMISSION
Model Water Resources Program,
W77-01079 1003 6E

Great Lakes Water Quality; Fourth Annual Report to the International Joint Commission.
W77-03383 1007 5G

Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

INTERNATIONAL JOINT COMMISSION ON THE PEMBINA RIVER BASIN
Model Water Resources Program,
W77-01079 1003 6E

INTERNATIONAL LAW
Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

Protection of the Marine Environment from Pollution,
W77-00973 1002 5G

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

Inland Water Pollution.
W77-01697 1004 5G

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

The International Law of Scientific Research in the Oceans,
W77-03687 1008 6E

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

The Degree of Effectiveness of International Law as Regards International Rivers,
W77-04354 1009 6E

A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

A View of Caracas,
W77-05032 1010 6E

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

The New Equity in the Law of the Sea,
W77-05219 1011 6E

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

Post Caracas: Striking a Bargain for Settlement at Geneva,
W77-06054 1012 6E

Historical and Geographical Evolution of Water Law and Its Role in the Management and Development of Water Resources,
W77-06536 1013 6E

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

Final Report of Committee VII (Final Recommendations of the International Conference on Water Law and Administration),
W77-08187 1017 6E

International Law and Radioactive Pollution by Ocean Dumping: 'With All Their Genius and With All Their Skill...'
W77-08957 1018 5G

Deep Seabed Hard Minerals Act (To Provide the Secretary of the Interior with Authority to Promote the Conservation and Orderly Development of Deep Seabed Hard Mineral Resources Pending Adoption of an International Regime).
W77-11450 1022 6E

INTERNATIONAL WATERS
The International Law of the Sea: A Case for a Customary Approach,
W77-00956 1002 6E

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

A View of Caracas,
W77-05032 1010 6E

The New Equity in the Law of the Sea,
W77-05219 1011 6E

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Rules and Regulations for Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Domestic Trade,
W77-07254 1015 5G

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

Petroleum Legislation in the North Sea Countries,
W77-09542 1019 6E

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

Conference on Law of Sea Will Seek to Reach Accord on Host of Complex Issues.
W77-10449 1021 6E

The Politics of Salt: Background and Implications of the Mexican-American Treaty of 1944,
W77-11097 1022 6E

Deep Seabed Hard Minerals Act (To Provide the Secretary of the Interior with Authority to Promote the Conservation and Orderly Development of Deep Seabed Hard Mineral Resources Pending Adoption of an International Regime).
W77-11450 1022 6E

International Law, World Order and Human Progress,
W77-11474 1022 6E

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

INTERORGAN DISTRIBUTION
The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

INTERRENAL GLAND
A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

INTERSTATE
Water Problems in the Colorado River Basin: Legal and Institutional Framework,
W77-03830 1008 5G

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

INTERSTATE COMMERCE
Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

INTERSTATE COMMISSIONS
California-Nevada Interstate Compact.
W77-06575 1013 6E

Interstate Stream Commission (Creation, Membership, General Powers).
W77-08402 1017 6E

INTERSTATE COMPACT
Pecos River Compact.
W77-07262 1015 6E

INTERSTATE COMPACTS
Upper Niobrara River Compact.
W77-00988 1002 6E

Great Lakes Compact Commission.
W77-03513 1007 6E

Klamath River Basin Compact.
W77-03705 1008 6E

Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

California-Nevada Interstate Compact.
W77-06575 1013 6E

Colorado River Compact.
W77-06579 1013 6E

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

Snake River Interstate Compact.
W77-08996 1018 6E

Canadian River Compact.
W77-11188 1022 6E

Rio Grande Compact.
W77-11189 1022 6E

INTERSTATE RIVERS
Connecticut River Water Resource Decision-Making,
W77-06017 1012 6B

California-Nevada Interstate Compact.
W77-06575 1013 6E

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

Interstate Stream Commission (Creation, Membership, General Powers).
W77-08402 1017 6E

Recent Development, Environmental Law--Water Pollution.
W77-08975 1018 5G

Snake River Interstate Compact.
W77-08996 1018 6E

INTERSTICES
The Nature of Changes in Bulk Density with Water Contents in Cracking Clay,
W77-09937 1020 2G

INTERSTITIAL WATER
Effects of Sample Handling on the Composition of Marine Sedimentary Pore Water,
W77-07742 1016 5A

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-11906 1023 2L

INTERTIDAL AREAS
State V Ashmore (Fixing Boundaries Adjacent to Tidewaters).
W77-00993 1002 6E

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Oregons's Estuaries,
W77-02593 1006 2L

The Metula Oil Spill,
W77-02679 1006 5C

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Efforts in Marine Revegetation in Artificial Habitats,
W77-03949 1008 5G

INTERTIDAL AREAS

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Title to Foreshore--Georgia Tidelands Act of 1902 Grants Right to Cultivate and Harvest Shellfish in Foreshore Area, Fee Simple Reserved in the State (Comment on State V Ashmore).
W77-11463 1022 6E

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

INTERTIDAL MUDFLATS

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

INTRACOASTAL WATERWAY (SC)

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

A Reconnaissance of the Hydrology of the Intracoastal Waterway from Bucksport to Little River Inlet, South Carolina,
W77-09077 1018 2L

INTRACOASTAL WATERWAYS

United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

INTRUSION

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

INVARIANT IMBEDDING

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

INVENTORY MODELS

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

INVERSE CONDEMNATION

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

INVERSE PROBLEM

Parameter Identification in an Inhomogeneous Medium with the Finite-Element Method,
W77-00638 1002 2F

INVERTEBRATE DRIFT

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

INVERTEBRATES

Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

Caloric Values of the Most Abundant Invertebrates of Two Woodland-Brooklets of the 'Naturpark Kottenforst-Ville', (In German),
W77-00415 1001 2I

Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

Distribution of the Phytophylic Invertebrates and Methods of their Quantitative Estimation, (In Russian),
W77-01040 1002 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Design and Preliminary Evaluation of an Improved Artificial Substrate Sampler for Aquatic Macroinvertebrates,
W77-01530 1003 7B

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

Survey of Macroinvertebrate Communities in the Provo River and Diamond Fork Systems,
W77-02548 1005 5C

Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Change of Biocenoses in Artificial Bodies of Water Due to Human Intervention, (In Russian),
W77-03618 1008 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Seasonal Distribution and Abundance of Crustacean Zooplankton in Lake Erie, 1970.
W77-05233 1011 5C

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Invertebrates and Organic Matter Swept along during Spates, at the Inlet and Outlet of the Karstic System of Baget, (In French),
W77-06007 1012 5B

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Ecological Relations Between Invertebrates and Submerged Macrophytes in the Lake Littoral,
W77-06694 1014 5C

Heat Resistance of Gametes of Marine Invertebrates in Relation to Temperature Conditions Under Which the Species Exist,
W77-06771 1014 5C

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

The Invertebrate Fauna of the Broel and Its Tributary Brooks, (In German),
W77-07746 1016 5C

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

The Influence of Brackish-Water Intrusion on Macroinvertebrate Associations of the Lower Tchefuncte River, Louisiana,
W77-08292 1017 5B

Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Species Differences in Breakdown of Tree Leaves in Streams--Significance for Composition of Stream Communities,
W77-09056 1018 5B

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

The Importance of Monitoring Change,
W77-09591 1019 5A

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

A New Model of Thicket Dredge, (In Russian),
W77-12347 1024 7B

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

INVESTIGATIONS

Study of the Effect of Desalted Drinking Water on the Health of the Population, (In Russian),
W77-03037 1006 5F

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

Water-Resources Investigations in Kentucky, 1976.
W77-09078 1018 7C

Water-Resources Investigations in Wisconsin, 1976.
W77-09079 1018 7C

Water-Resources Investigations in Montana, 1976.
W77-10573 1021 7A

Water-Resources Investigations in Oklahoma, 1976.
W77-10574 1021 7A

Water-Resources Investigations in Wyoming, 1976.
W77-10575 1021 7A

Summary Statements of Water Resources Investigations 1976-77,
W77-10863 1022 9C

INVESTMENT

International Joint Ventures in Fishing and 200-Mile Economic Zones,
W77-00707 1002 6E

Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

Rethinking Our Approach to Water Supply Provision,
W77-10746 1021 6B

Simultaneous Investment and Allocation Decisions Applied to Water Planning,
W77-12168 1023 6A

INVISCID FLUID

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

IODATES
The Sorption of Iodate and Iodide by Riverine Sediments: Its Implications to Dilution Gauging and Hydrochemistry of Iodine,
W77-04874 1010 2K

IODIDES
The Sorption of Iodate and Iodide by Riverine Sediments: Its Implications to Dilution Gauging and Hydrochemistry of Iodine,
W77-04874 1010 2K

IODINE
Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

The Sorption of Iodate and Iodide by Riverine Sediments: Its Implications to Dilution Gauging and Hydrochemistry of Iodine,
W77-04874 1010 2K

IODINE HYDROLYSIS
Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

ION ELECTRODE PROCEDURE
Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

ION EXCHANGE
Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

Removal of Organics from Water,
W77-00924 1002 5D

A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Liquid Treating System,
W77-01739 1004 5F

Ion Exchange Regeneration,
W77-01748 1004 5F

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

Ammonia Removal from Wastewater by Ligand Exchange,
W77-03367 1007 5D

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

Sucrose Removal from Cane Sugar Mill Waste Streams by Ion Exchange,
W77-04142 1009 5D

Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Application of Weak Base Ion-Exchange Resins for Removal of Proteins,
W77-04802 1010 5D

Sorption of Organic Impurities from Textile Industry Effluents on Ion-Exchangers (Sorpcja zanieczyszczen organicznych ze sciekow przemyslu wlokienniczego na jonitach),
W77-04819 1010 5D

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

Enzyme Process Design for Water Treatment,
W77-05336 1011 5D

Treatment of Spent Bisulfite Liquor by the Technique of Ion-Exclusion,
W77-05518 1011 5D

Application of Ion Exchange Resins in the Purification of Plating Sewage. 3. Transformation of Ion Exchange Resins During their Exploitation (Primenenie ionoobmennykh smol dlya ochistki stochnykh vod gal' vanicheskikh tsekhov. 3. izmenenie svoistv ionitov v khode ekspluatatsii),
W77-05521 1011 5D

Removal of Cr(+6) from Potable Water by Ion Exchange (Usuwanie zwiazkow Cr(+6) z wody pitnej za pomoca wymiany jonowej),
W77-06193 1013 5F

Silver Recovery from Photographic Wash Waters by Ion Exchange,
W77-06212 1013 5D

Polymeric Adsorbents for Treatment of Waste Effluents,
W77-06213 1013 5D

The Treatment of Waste Waters with Peat Moss,
W77-06220 1013 5D

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Seasonal Variation in Sediment-Water Exchange of Nutrient Ions in Lake Esrom,
W77-07467 1015 5C

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

New Directions in Ion Exchange,
W77-08719 1018 5D

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Experimental Study of Multi-Cation Diffusion in an Artifical Quartz Sandstone,
W77-08811 1018 2K

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

Chromatography of Chlorinated Biphenyls on an Ion-Exchange Resin,
W77-09749 1020 5A

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Removal of Organic Residual Matter from Effluents with the Aid of Macroporous Adsorption Resins (Entfernung von organischen Reststoffen aus Abwaessern mit Hilfe von Makroporoesen Adsorberharzen),
W77-10617 1021 5D

Physical and Chemical Methods,
W77-10645 1021 5D

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

Electrodialysis in Water Desalination and the Influence of Ion Exchange Resin Introduction into the Apparatus,
W77-11074 1022 3A

Desalting in Australia: The Development of a New Process for Brackish Water,
W77-11117 1022 3A

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

Synthesis and Study of Ion-Exchange Celluloses. Their Use in the Purification of Waste Waters from the Textile Industry. I. Synthesis of a Cellulose Grafted with Polyacrylic Acid Chains and of a Cellulose Incorporating Quaternary Ammonium (In French),
W77-12337 1024 5D

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

ION EXCHANGE REACTIONS

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

ION EXCHANGE RESINS

Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

ION EXCLUSION (TREATMENT)

Treatment of Spent Bisulfite Liquor by the Technique of Ion-Exclusion,
W77-05518 1011 5D

ION MICROPROBE

An Investigation of the Particulate Phase of Acid Precipitation,
W77-10178 1021 2B

ION-PAIR MODELS

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

ION-PAIRS

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

ION TRANSPORT

Total Mineral Dissolved Transport by World Major Rivers,
W77-01135 1003 5B

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Iron Transport in a Lake Tahoe Tributary and its Potential Influence upon Phytoplankton Growth,
W77-04022 1008 5B

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

A Transport Kinetic Concept for Ion Uptake by Plants, III. Test of the Concept by Results from Water Culture and Pot Experiments,
W77-09315 1019 2I

Transport of Nitrate Ion in Unsteady, Unsaturated Flow in Porous Media,
W77-10595 1021 2G

Material Transport Through Porous Media: A Finite-Element Galerkin Model,
W77-10981 1022 2F

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

IONIC DETERGENTS

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

IONIZATION

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

Inactivation by Ionizing Radiation of Salmonella Enteritidis Serotype Montevideo Grown in Composted Sewage Sludge,
W77-09880 1020 5D

IONIZATION EQUILIBRIA

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

IONIZATIONS CONSTANTS

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

IONOSPHERE

On the Possible Detection of Tsunamis by a Monitoring of the Ionosphere,
W77-01918 1004 2L

IONS

The Effect of Surface-Active Substances on Pathogenic Enterobacteria in Water, (In Russian),
W77-00346 1001 5C

Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Effects of Selected Ions on the Removal of Chrome (III) Hydroxide,
W77-00744 1002 5D

Physical-Chemical and Planktonological Quantitative Studies of the Great Lake of Laffrey (Years 1970, 1971 and 1973), (In French),
W77-01019 1002 5C

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

Effects of Potassium on Adult Asiatic Clams, Corbicula Manilensis,
W77-03119 1007 5C

Stability of Ionic Proportions in Five Salt Lakes in Victoria, Australia,
W77-03285 1007 2H

Chemical Composition of Some Inland Surface Waters in South, Western, and Northern Australia,
W77-03286 1007 2K

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

Ion Activity Products of Calcium Carbonate In Waters Below the Root Zone,
W77-11438 1022 2K

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

The Influence of Cations on Chlorine Toxicity,
W77-12249 1023 5C

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

IOSEGUN LAKE AREA (ALBERTA)

Hydrogeology of the Iosegun Lake Area, Alberta,
W77-11587 1023 2F

IOWA

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

Economic Impacts of State Environmental Programs in a National Framework: The Iowa Conservancy Law,
W77-00303 1001 6G

Hydrologic Unit Map--1974, State of Iowa
W77-00425 1001 7C

Iowa's Experience with a Mandatory Sediment Control Law,
W77-00477 1001 6E

Watershed Erosion Model Validation for Southwest Iowa,
W77-00778 1002 4D

Physical and Chemical Characteristics of Sediments Originating from Missouri Valley Loess,
W77-00811 1002 5B

Distribution of Reservoir Sediment--Iowa and Missouri Deep Loess Hills,
W77-00825 1002 2J

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

Floodplain Management: The Iowa Experience,
W77-00962 1002 6F

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

Predicting Sediment Yield Frequency for Rural Basins to Determine Man's Effect on Long-Term Sedimentation,
W77-02786 1006 4D

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

Projections of Population, Employment, Income and Water Use for Iowa River Basins, 1975-2020,
W77-03542 1007 6D

Iowa's Water Resources Program Progress and Needs.
W77-03547 1007 6B

Iowa Water Resources Framework Study Plan of Study.
W77-03561 1007 6B

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

Valder V Wallis (Establishing Title to Accreted Portion of Interstate Island),
W77-04932 1010 6E

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

Pearson V. City of Guttenberg (City's Procrastination in Developing Riverside Tract Give Private Adjacent Owner Title).
W77-06067 1012 6E

Austin v Bedford, Iowa, (Conflict in Conveyance Rights and Use of Dirt Fill).
W77-06070 1012 6E

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Strength of Soil Aggregates: Influence of Size, Density and Clay and Organic Matter Content,
W77-08707 1018 2G

Network Characteristics in Suburbanizing Streams,
W77-08830 1018 4C

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Modeling Nitrate Movement and Dissipation in Fertilized Soils,
W77-10975 1022 5B

Determination of Regional Evapotranspiration from Upper Air Meteorological Data,
W77-11211 1022 2D

Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

IOWA SOILS

Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

IPSWICH RIVER (MA)

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

IRAN

Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

The Dashte-Naz Ground-Water Barrier and Recharge Project,
W77-05365 1011 4B

Application of Dynamic Programming to Model Tri-Dimensional Flow in Porous Media (Application de la Programation Dynamique aux Modeles Tridemensionnels de Calcul des Ecoulements dans les Milieux Poreux),
W77-10429 1021 2F

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

IRAN (HABLEH RUD RIVER)
Yields and Acreage as Variables in Planning the Use of Saline Irrigation Water: A Case Study from Iran,
W77-12742 1024 3C

IRAQ
Vegetation and Soil of Saline Depressions Near Najaf, Central Iraq,
W77-02116 1005 3C

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

Composition of Saline Drainage Water in Iraq and its Use,
W77-12740 1024 3C

IRAQ (SOILS)
Resistance to Soda Salinization of Some Iraqi Soils,
W77-12730 1024 2G

IRELAND
Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Flood Studies Report.
W77-04244 1009 2A

Estimation of Components of Soil Cation Exchange Capacity from Measurements of Specific Surface and Organic Matter,
W77-09971 1020 2G

IRISH SEA
The Behavior of Plutonium Nuclides in the Irish Sea,
W77-04518 1009 5C

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

A Model of the Annual Cycle of Temperature in a Frontal Region of the Celtic Sea,
W77-09708 1020 2L

IRON
Manganese and Iron Removal from Water by Adsorption on Diatomaceous Earth,
W77-00155 1001 5F

The Mechanism of Phosphate Fixation by Iron Oxides,
W77-00291 1001 2K

Hygienic Investigations of a Case of River Pollution by Chemical Plant Wastewaters, (In Russian),
W77-01027 1002 5B

Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Performance Characteristics for the Spectrophotometric Determination of Total Iron in Freshwater Using Hydrochloric Acid,
W77-01642 1004 5A

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Some Aspects of the Chemical Composition of Trapa Natans L. in Lake Maggiore (Italy), Especially Manganese and Iron, (In French),
W77-02250 1005 5C

A Model for the Simultaneous Production and Diffusion of Ferrous Iron in Submerged Soils,
W77-02278 1005 2G

Fixation of Iron and Zinc Applied as Chelates into a Soil Column During Leaching,
W77-02280 1005 2G

Dissolution of Illite--A Possible Mechanism of Potassium Release,
W77-02283 1005 2G

Interactions of Ferric and Ferrous Irons and Organic Matter in Water Environment,
W77-02389 1005 5B

Ductile Iron Pipe Solves a Tough Sewer Problem at Jimerson Creek,
W77-03398 1007 8G

Iron Transport in a Lake Tahoe Tributary and its Potential Influence upon Phytoplankton Growth,
W77-04022 1008 5B

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

Limnologic-Geologic Excursion in the Territory of the Lower Erft River, (In German),
W77-07799 1016 5B

Sanitary and Hygienic Characteristics of Subsurface Waters of the Tselinograd and Turgai Oblasts, (In Russian),
W77-08253 1017 5B

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

The Behaviour of Dissolved Iron, Manganese and Zinc in the Beaulieu Estuary, S. England,
W77-08701 1018 5B

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

A Technique to Determine Iron Efficiency in Plants,
W77-10280 1021 2G

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Extraction of Iron from Water by Chlorella Vulgaris and Scenedesmus Quadricauda,
W77-11303 1022 5C

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

Serum Iron Level and Total Iron Binding Capacity in Culture Fish,
W77-11543 1023 5A

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: II. Supply of Iron,
W77-11955 1023 3C

Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

IRON ALLOYS

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

IRON AND STEEL INDUSTRY

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

IRON AND STEEL MANUFACTURING POINT SOURCE CATEGORY

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

IRON BACTERIA

Effect of Polyvinyl Chloride on Water Microflora, (In Russian),
W77-02386 1005 5C

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

New Medium for Isolating Iron-Oxidizing and Heterotrophic Acidophilic Bacteria from Acid Mine Drainage,
W77-09511 1019 5B

IRON-BEARING WATER

Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

IRON CHLORIDE

Color Removal in a Ferric Chloride-Lime System,
W77-01653 1004 5D

IRON-COMPLEXES

Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

IRON COMPOUNDS

Removing Iron from Acid Waste Liquids by Oxidation - at Controlled PH by Addition of Base, Giving Easily Separated Precipitation for Large-Scale Use.
W77-00761 1002 5D

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

One Process Step Can Be Skipped: Biological-Chemical Waste Water Treatment Plant Becoming Cheaper (Et prosesstrinn kan sioyfes: biologisk-kjemiske renseanlegg blir billigere),
W77-10631 1021 5D

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Effect of Ferric Hydroxide Suspension on Blood Chemistry in the Common Shiner, Notropus cornutus,
W77-12237 1023 5C

IRON EXCHANGE

New Ion Exchange Systems for the Beet Sugar Industry. Part III. Processing of Ion Exchange Waste,
W77-05520 1011 5D

IRON HYDROXIDE

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

IRON OXIDATION

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

IRON OXIDES

The Mechanism of Phosphate Fixation by Iron Oxides,
W77-00291 1001 2K

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: I. Swelling and Aggregate Stability After Drying,
W77-03073 1006 2G

Zinc Adsorption Isotherms for Soil Clays With and Without Iron Oxides Removed,
W77-10284 1021 2G

Reactions of Metal Ions at Surfaces of Hydrous Iron Oxide,
W77-10566 1021 2K

IRRADIANCE FIELDS

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

IRRADIATION

Sewage Sludge Irradiation System-Applying Electron Beam Before Mixing Gap Between Endless Belts Moving at Differential Speed.
W77-04679 1010 5D

Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

Sludge in a State of Purity,
W77-06154 1013 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Electron-Beam Irradiation of Waste Products--e.g., For Sterilization of Sewage Sludge and Waste Industrial Products.
W77-06997 1014 5D

Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

Sewage Sludge Disinfected by Electron-Beam Bombardment.
W77-08580 1017 5D

Pasteur v Curie.
W77-09864 1020 5D

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Inactivation by Ionizing Radiation of Salmonella Enteritidis Serotype Montevideo Grown in Composted Sewage Sludge,
W77-09880 1020 5D

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Sterilization of Purification Plant Sludge by Means of Electron Radiation (Hygienisierung von Klaerschlamm durch Elektronenbestrahlung),
W77-10604 1021 5D

Preliminary Investigations in Water Treatment with High Energy Electron Beams,
W77-10614 1021 5D

Sludge Pasteurization by Heat and Ionizing Radiation. Results of a Study for the Effluents Purification Plant, Bern-Neubrueck (Schlammhygienisierung durch Waerme und ionisierende Strahlen: Ergebnisse einer Verfahrensstudie fuer die ARA Bern-Neubrueck),
W77-10615 1021 5D

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Oxidizing Organic Refractory Cpds. in Waste Water - By Contact with Ozone Contg. Gas and Simultaneous UV Irradiation.
W77-11683 1023 5D

Hygienization of Sewage Sludge by Electron Irradiation,
W77-11712 1023 5E

Disinfection, (Literature Review),
W77-11730 1023 5D

Inactivation of Poliovirus in Wastewater Sludge with Radiation and Thermoradiation,
W77-11756 1023 5D

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

The MIT/Marine Industry Collegium Opportunity Brief No. 6. Electron Irradiation, Sewage Sludge and Aquaculture.
W77-12915 1024 5D

Radioactive Treatment of Sewage Sludge--In Irradiation Chamber Sunk in Pit Below Water Tank as Radiation Screen.
W77-12919 1024 5D

IRREVERSIBLE EFFECTS

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

IRRIGABLE LAND

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

IRRIGATED LAND

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Mathematical Modelling of the Return Waters Runoff,
W77-10423 1021 4B

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

IRRIGATED LANDS

Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

Present-Day Slumping and Erosion Phenomena on Irrigated Lands (Exemplified by Southeastern Ciscaucasia), (In Russian),
W77-08885 1018 2J

Sampling the Unsaturated Zone of Irrigated Lands for Reliable Estimates of Nitrate Concentrations,
W77-09974 1020 2G

IRRIGATED SITES

The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

IRRIGATED WATER

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: I. Reducing Ammonia Volatilization,
W77-01517 1003 5G

IRRIGATION

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

An Experimental Buried Multiset Irrigation System,
W77-00317 1001 3F

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Sediment-Phosphorus Relations in Surface Runoff from Irrigated Lands,
W77-00812 1002 5B

Production Investigations in Irrigated and Non-Irrigated Winter Wheat Stand During the Growing Season, (In Hungarian),
W77-00963 1002 3F

Utah Lake Diking Project.
W77-01010 1002 6E

Irrigation Without Wastes,
W77-01047 1002 3F

Percolation of Surface-Applied Water in the Field,
W77-01137 1003 2G

Non-Side-Splash Water Sprinklers,
W77-01197 1003 3F

Drip Irrigation Device,
W77-01213 1003 3F

Pipe-Following Irrigation Machine,
W77-01224 1003 3F

Pipe Insertable Emitter for Irrigation Systems,
W77-01225 1003 3F

Ferti-Irrigation - Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 1,
W77-01393 1003 3F

Ferti-Irrigation-Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 2,
W77-01394 1003 3F

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Irrigation of Corn with Effluents from Fermentation and Yeast-Producing Plants (Oroshenie kukuruzy stochnymi vodami gidrolizno-drozhzhevogo proizvodstva),
W77-01645 1004 5D

Watering Apparatus Having Automatic Feed,
W77-01714 1004 3F

Hydraulic Actuated Load Sensing Governor,
W77-01715 1004 3F

Quick-Connect Fittings for a Trickle Type Irrigation System,
W77-01723 1004 3F

Self-Correcting Linearly Movable Irrigation System,
W77-01730 1004 3F

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

Oscillating Sprinkler,
W77-01745 1004 3F

Peripheral Water Balance Control for Center Pivot Irrigation System,
W77-01754 1004 3F

Governor for Rotary Sprinkler,
W77-01755 1004 3F

Nearly 50,000 Nebraska Wells Causing Some Concern.
W77-01765 1004 4B

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Seepage from Trapezoidal Canal in Anisotropic Soil,
W77-02137 1005 2G

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

The Irrigator's Counselor,
W77-02197 1005 3F

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

Effects of Water-Management Practices on the Flow of the South Platte River, Colorado,
W77-02303 1005 4B

Spray Irrigation Solves Disposal Problem,
W77-02356 1005 5D

IRRIGATION

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

The Aeration Conditions of Southern and Ciscaucasian Chernozems Under Irrigation, (In Russian),
W77-02927 1006 2G

Physical and Chemical Properties of Takyr Soils and Changes in Their Agrochemical Properties After Irrigation, (In Russian),
W77-02929 1006 3F

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Reactions of Heavy Metals With Soils With Special Regard to Their Application in Sewage Wastes,
W77-03359 1007 5B

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

Irrigation Districts.
W77-03509 1007 6E

Vegetative Water Use in California, 1974.
W77-03554 1007 3F

Irrigation Pipes with Dripper Units and Method of its Manufacture,
W77-03871 1008 3F

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Energy Costs Dictate Efficient Well Design,
W77-04119 1009 8B

Use of Caspian Sea Water for Irrigation,
W77-04263 1009 3C

Making Water Available for Irrigation,
W77-04293 1009 4B

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

The Pulsed Irrigation Principle for Controlled Soil Wetting,
W77-04770 1010 2G

Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

Distribution Valve for Irrigation Channels,
W77-04950 1010 3F

Automatic Watering Installation,
W77-04955 1010 3F

Desormeaux V Central Industries, Inc. (Lack of Water for Irrigation Causing Crop Damage),
W77-05075 1010 6E

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

Recycling Agricultural Runoff,
W77-05333 1011 5D

The Dashte-Naz Ground-Water Barrier and Recharge Project,
W77-05365 1011 4B

Land Disposal of Sewage,
W77-05526 1011 5D

Spraying Apparatus,
W77-05659 1012 3F

Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

Time-Dependent Linearized Infiltration: III. Strip and Disc Sources,
W77-06011 1012 3F

Combined Use of Ground and Surface Waters for Irrigation,
W77-06309 1013 3F

Lowrey v. Hodges (Temporary Permits to Use Ground Water for Irrigation).
W77-06567 1013 6E

Damage by Floating Timber.
W77-06577 1013 6E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Accumulation of Heavy Metals in Soils from Extended Waste Water Irrigation,
W77-07049 1014 5B

Underflow from Sludge-Irrigated Cropland,
W77-07056 1014 5B

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Solutions to Green-Ampt Infiltration Equation,
W77-07553 1015 4A

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Model of Salt Flow in Soil with a Source-Sink Term,
W77-07761 1016 2G

A Second Look at Water Reuse,
W77-07908 1016 5D

Flow Controller Device,
W77-08017 1016 3F

Fluid Flow Regulator,
W77-08018 1016 3F

Irrigation System,
W77-08019 1016 3F

Sprinkler Adapted for Attachment to the Ground,
W77-08025 1016 3F

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

Year Round Cooling Water from the Cold Weather of Winter,
W77-08251 1017 5D

A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

Irrigation and Irrigation Districts.
W77-08396 1017 6E

Sludge Disposal in the North West,
W77-08628 1018 5E

Annual Summary of Ground-Water Conditions in Arizona, Spring 1975 to Spring 1976,
W77-08732 1018 7C

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

Flow Restrictor and Trickle Emitter,
W77-08879 1018 3F

Easily Movable Irrigation Sprinkler System,
W77-08880 1018 3F

Irrigation Sprinkling Apparatus with Adjustable Ground Contacting Elements,
W77-08886 1018 3F

Irrigation Drain Valve,
W77-08887 1018 3F

Rotary Water Sprinkler,
W77-08888 1018 3F

Gravitational Irrigation System and Method of Installing,
W77-08895 1018 3F

Sprinkler Having Improved Water Distribution,
W77-08899 1018 3F

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

Grove Irrigation System,
W77-09800 1020 3F

Self-Regulating Sprinkler,
W77-09801 1020 3F

Rotary Sprinkler Particularly for Use with Low-Energy Water Jets,
W77-09802 1020 3F

Underground Irrigation Porous Pipe,
W77-09810 1020 3F

Traveling Irrigation Sprinkler,
W77-09811 1020 3F

Remote Control for Large-Area Sprinkler Systems,
W77-09814 1020 3F

Spray Irrigation-Waste Water Treatment Facility. North Branch Fire District No. 1, West Dover, Vermont.
W77-09828 1020 5D

Selected Water-Level Records for Western Oklahoma, 1975-1976,
W77-09998 1020 7C

Scientific Bases of a System for Averting Unfavorable Consequences of Steppe Soil Irrigation, (In Russian),
W77-10021 1020 2G

Field Evaluation of 102-mm (4-inch) Corrugated Polyethylene Tubing,
W77-10172 1021 8G

Laterally Confined, Steady Flows of Water from Sources and to Sinks in Unsaturated Soils,
W77-10311 1021 2G

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

A Methodology for Assessing Land Application of Sludges and Wastewaters,
W77-10635 1021 5E

Management Alternatives for Land Treatment Systems,
W77-10637 1021 5G

An Economic Analysis of Irrigated Farming with Diminishing Ground Water Reserves,
W77-10748 1021 4B

How Accurate Are Shop-Made Orifice Plates,
W77-10782 1021 3F

Ground-Water Conditions in Utah, Spring of 1977,
W77-10864 1022 4B

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Soil Irrigation System and Method,
W77-10996 1022 3F

Automatic Closure Valve for Water Sprinkler,
W77-10999 1022 3F

Brake Means for an Air-Powered Sprinkler System,
W77-11000 1022 3F

Reversible Self-Propelled Center Pivot Sprinkler System,
W77-11001 1022 3F

Irrigation Signal,
W77-11008 1022 3F

Method and Apparatus for Transporting an Irrigation Line,
W77-11010 1022 3F

Conservation of Water for Irrigation Purpose.
W77-11194 1022 6E

The Use of Crossover Discount Rates in Irrigation Scheme Design,
W77-11401 1022 3F

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

The Class One Equivalency for Certain Reclamation Projects (Hearings on H.R. 13101, Which Provides for Consideration of the Comparative Production Potential of Irrigable Lands in Determining Nonexcess Acreage Under Federal Reclamation Laws).
W77-11446 1022 4B

Concept, Research, Approval...An Effluent Irrigation Project Houghton Lake Sewer Authority.
W77-11757 1023 5E

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

Ground Water Recharge in Western Uttar Pradesh,
W77-11932 1023 4B

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

Irrigation Purge Valve,
W77-12698 1024 3F

Irrigation Tubing,
W77-12699 1024 3F

Center-Pivot Irrigation System,
W77-12709 1024 3F

Information Storage and Retrieval for Evaluation of Irrigation Potential,
W77-12723 1024 7C

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Sprinkler Method of Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-12840 1024 3F

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

The Productivity, Fodder Value and Utilization of Nutrients by Alfalfa in Irrigation and Application of Macroelements and Molybdenum, (In Russian),
W77-12994 1024 3F

Nitrogen and Irrigation in Forage Crop Rotations, (In German),
W77-12996 1024 3F

IRRIGATION CANALS

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

History of Irrigation and Characteristics of Streamflow in Nebraska Part of the North and South Platte River Basins,
W77-00859 1002 2E

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

R10 Million Water Scheme Nears Completion, Irrigating the Islands of the Orange.
W77-01375 1003 3F

IRRIGATION CANALS

Crop Production in the Arid Zone with Special Reference to Western Rajasthan,
W77-02869 1006 3F

Field Channels: A Key to Better Indian Irrigation,
W77-03062 1006 3F

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Novel Irrigation System and Method for its Application,
W77-06450 1013 3F

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

Residues of Dichlobenil in Irrigation Water,
W77-09287 1019 5B

The Functional and Aesthetic Uses of Two Cache Valley, Utah, Canals,
W77-09796 1020 6B

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

IRRIGATION CONSTRUCTION

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

IRRIGATION DESIGN

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

Irrigation Without Wastes,
W77-01047 1002 3F

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

R10 Million Water Scheme Nears Completion, Irrigating the Islands of the Orange.
W77-01375 1003 3F

Optimum Utilisation of Water,
W77-01383 1003 3F

Trickle Irrigation Design,
W77-05311 1011 3F

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

Groundwater Policies Now Lean Towards Management.
W77-08660 1018 4B

Efficiency of Sprinkler Irrigation Systems,
W77-11084 1022 3F

Energy Economics in Pipe and System Selection,
W77-12715 1024 3F

IRRIGATION DISTRICTS

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Irrigation Districts.
W77-03509 1007 6E

Irrigation Districts Powers and Purposes.
W77-03515 1007 6E

Irrigation and Irrigation Districts.
W77-08396 1017 6E

Interstate Stream Commission (Creation, Membership, General Powers).
W77-08402 1017 6E

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

IRRIGATION DITCHES

Ditch Companies.
W77-03501 1007 6E

Levees, Drains and Ditches,
W77-03727 1008 6E

Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

Wood V Woodcock (Rights of Adjoining Landowners to Seepage Water from Joint Irrigation Ditch),
W77-07278 1015 6E

Automation of an Open-Ditch Irrigation Conveyance System Utilizing Tile Outlets,
W77-12781 1024 4A

IRRIGATION EFFECTS

Chemical Changes in the Soil Solution from a Spodosol Irrigated with Secondary-Treated Sewage Effluent,
W77-00040 1001 5E

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

Light-Chestnut Long-Irrigated Soil of the Sharur Plain, (In Russian),
W77-00510 1001 2G

Mechanism of Interaction of Weakly Mineralized Irrigation Water with Soil, (In Russian),
W77-00524 1001 2G

Irrigation of Corn with Simulated Municipal Sewage Effluent,
W77-00610 1002 5E

Soil Nitrate Loss During Irrigation: Enhancement by Plant Roots,
W77-01268 1003 3F

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

Flow Resistance and Intake Characteristics of Irrigation Furrows,
W77-01893 1004 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

Arkansas River Water Quality Related to the Irrigation Potential of Associated Soils,
W77-02065 1004 5B

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Effect of Irrigation on Some Properties of Southern Chernozems, (In Russian),
W77-02889 1006 2G

The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Effect of Drought Stress Frequencies at Different Growth Stages on Corn Yield,
W77-03143 1007 3F

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Water Management in Linseed,
W77-04788 1010 3F

Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

Cadmium Distribution in Forest Ecosystems Irrigated with Treated Municipal Waste Water and Sludge,
W77-06178 1013 5B

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

Modest Techniques
W77-06237 1013 6G

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

Effect of the Quality of Irrigation Water on the Yield of Some Wheat (Triticum Aestivum) Varieties in a Sandy Soil of Rajasthan,
W77-06247 1013 3C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

Water for Food - Or for More Important Purposes. (Reallocation of Irrigation Water to Cities and Industries),
W77-08377 1017 6E

Potential of New Summer Grasses in Northland: I. Warm-Season Yields Under Dryland and Irrigation,
W77-08458 1017 3F

Effects of Treated Municipal Wastewater and Commercial Fertilizer on Growth, Fiber, Acid-Soluble Nucleotides, Protein and Amino Acid Content in Wheat Hay,
W77-08876 1018 5C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

The Role of Irrigation in Food Production,
W77-09535 1019 3F

Underground Irrigation Porous Pipe,
W77-09810 1020 3F

High-Frequency Irrigation for Water Nutrient Management in Humid Regions,
W77-10278 1021 3F

Hydrologic Evaluation of Ashley Valley, Northern Uinta Basin Area, Utah,
W77-10564 1021 2A

Irrigation Trial with Morro Bay Wastewater,
W77-10623 1021 5D

Irrigating with Wastewater in Sonoma County,
W77-10624 1021 5D

Soil Irrigation System and Method,
W77-10996 1022 3F

Physiological Basis for the Reduction of Plant Growth Under Conditions of Irrigation with Brackish Water and Possible Methods of Amelioration,
W77-11063 1022 3C

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

Use of Geothermal Brackish Water for Soil Warming and Vegetable Irrigation,
W77-11066 1022 3C

Effects of Brackish Water Irrigation on Yield and Development of Cotton,
W77-11067 1022 3C

Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

Irrigation with Brackish Water: Chemical and Hydraulic Changes in Soils Irrigated with Brackish Water Under Cotton Rotation,
W77-11071 1022 3C

Effects of Irrigation Management on the Quality of Irrigation Return Flow in Ashley Valley, Utah,
W77-11079 1022 5B

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Mulch, Nitrogen, and Irrigation Effects on Growth, Yield, and Nutrient Uptake of Forage Corn,
W77-11390 1022 3F

Effects of Irrigation History on Responses of Cotton to Subsequent Water Stress,
W77-11430 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

A Study of Salt Leaching by Ponding and Sprinkling in Unsaturated Soil Columns,
W77-11444 1022 3C

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Quality Monitoring of Irrigation Water and Return Flows Irrigation Season 1974,
W77-12725 1024 5B

Models for Predicting the Impact of Irrigation on Soil Salinity,
W77-12731 1024 2G

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

Minimizing the Salt Burden of Pecos River Irrigation Drainage Water,
W77-12754 1024 5G

U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

Effect of Date of Final Irrigation on Yield and Yield Components of Sunflowers in a Semiarid Environment,
W77-12829 1024 3F

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

IRRIGATION EFFICIENCY

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Center Pivot Irrigation,
W77-00968 1002 3F

Irrigation Without Wastes,
W77-01047 1002 3F

The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

Drip Irrigation Device,
W77-01213 1003 3F

Pipe-Following Irrigation Machine,
W77-01224 1003 3F

Pipe Insertable Emitter for Irrigation Systems,
W77-01225 1003 3F

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: II. Reducing Calcium Precipitation and Sodium Hazard,
W77-01286 1003 5G

Optimum Utilisation of Water,
W77-01383 1003 3F

Watering Apparatus Having Automatic Feed,
W77-01714 1004 3F

Hydraulic Actuated Load Sensing Governor,
W77-01715 1004 3F

Quick-Connect Fittings for a Trickle Type Irrigation System,
W77-01723 1004 3F

Self-Correcting Linearly Movable Irrigation System,
W77-01730 1004 3F

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Oscillating Sprinkler,
W77-01745 1004 3F

Peripheral Water Balance Control for Center Pivot Irrigation System,
W77-01754 1004 3F

Governor for Rotary Sprinkler,
W77-01755 1004 3F

Drip or Trickle Emitter for Use in Drip or Trickle Irrigation,
W77-01756 1004 3F

Flow Resistance and Intake Characteristics of Irrigation Furrows,
W77-01893 1004 3F

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Experts Cling to Water Myths,
W77-02120 1005 3F

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

He's Automating Dead Level Irrigation,
W77-02195 1005 3F

The Irrigator's Counselor,
W77-02197 1005 3F

Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Hose or Pipe for Sprinkling or Irrigation,
W77-03864 1008 3F

Irrigation Pipes with Dripper Units and Method of its Manufacture,
W77-03871 1008 3F

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Optimization of Crop Irrigation Strategy Under a Stochastic Weather Regime: A Simulation Study,
W77-03941 1008 3F

Irrigation Efficiency, A Bibliography, Volume 2.
W77-03968 1008 3F

Drip Irrigation an Efficient Technique,
W77-04321 1009 3F

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Distribution Valve for Irrigation Channels,
W77-04950 1010 3F

Automatic Watering Installation,
W77-04955 1010 3F

Spraying Apparatus,
W77-05659 1012 3F

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

Flow Controller Device,
W77-08017 1016 3F

Irrigation System,
W77-08019 1016 3F

Sprinkler Adapted for Attachment to the Ground,
W77-08025 1016 3F

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

Flow Restrictor and Trickle Emitter,
W77-08879 1018 3F

Irrigation Sprinkling Apparatus with Adjustable Ground Contacting Elements,
W77-08886 1018 3F

Irrigation Drain Valve,
W77-08887 1018 3F

Rotary Water Sprinkler,
W77-08888 1018 3F

Gravitational Irrigation System and Method of Installing,
W77-08895 1018 3F

Sprinkler Having Improved Water Distribution,
W77-08899 1018 3F

Predicting Attainable Irrigation Efficiencies in the Upper Snake River Region,
W77-09137 1019 3F

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

The Role of Irrigation in Food Production,
W77-09535 1019 3F

Grove Irrigation System,
W77-09800 1020 3F

Rotary Sprinkler Particularly for Use with Low-Energy Water Jets,
W77-09802 1020 3F

Traveling Irrigation Sprinkler,
W77-09811 1020 3F

Irrigation Requirements of Mature Peach Trees Under Microjets (Besproeiingsbehoeftes van volwasse perskebome onder mikrospuite),
W77-10079 1020 3F

Can Irrigation with Municipal Waste Water Conserve Energy,
W77-10579 1021 5E

Automatic Closure Valve for Water Sprinkler,
W77-10999 1022 3F

Brake Means for an Air-Powered Sprinkler System,
W77-11000 1022 3F

Reversible Self-Propelled Center Pivot Sprinkler System,
W77-11001 1022 3F

Irrigation Signal,
W77-11008 1022 3F

Method and Apparatus for Transporting an Irrigation Line,
W77-11010 1022 3F

Drip Irrigation with Saline Water and the Leaching of Soil by Means of Drip Irrigation,
W77-11062 1022 3C

The Irrigation of Winter Tomatoes in the Arava,
W77-11068 1022 3F

Efficiency of Sprinkler Irrigation Systems,
W77-11084 1022 3F

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

Sprinkler Uniformity Measures and Skewness,
W77-12505 1024 3F

Irrigation Tailwater Loss and Utilization Equations,
W77-12506 1024 3F

Management for Optimum Efficiency,
W77-12510 1024 3F

Operating Large Traveling 'Gun' Sprinklers in Winds,
W77-12511 1024 3F

Low-Cost 'Bubbler' Developed.
W77-12519 1024 3F

Subterranean Irrigation, A Special Report on the PAT, Inc. System,
W77-12523 1024 3F

New Row Crop Drip Irrigation Use,
W77-12529 1024 3F

Minimum Energy Designs for Selected Irrigation Systems,
W77-12537 1024 3F

Estimating Seepage Losses from Canal Systems,
W77-12608 1024 4A

Evaluation of Nonuniformity in Irrigation and Yield,
W77-12628 1024 3F

Drip Irrigation - Worldwide 1975 Present Status and Outlook for Drip Irrigation,
W77-12629 1024 3F

Irrigation Purge Valve,
W77-12698 1024 3F

Irrigation Tubing,
W77-12699 1024 3F

Center-Pivot Irrigation System,
W77-12709 1024 3F

Critical Irrigation Management Decisions,
W77-12716 1024 3F

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

Effect of Date of Final Irrigation on Yield and Yield Components of Sunflowers in a Semiarid Environment,
W77-12829 1024 3F

Sprinkler Method of Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-12840 1024 3F

IRRIGATION EFFICIENTY

Non-Side-Splash Water Sprinklers,
W77-01197 1003 3F

Novel Irrigation System and Method for its Application,
W77-06450 1013 3F

IRRIGATION ENGINEERING

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Center Pivot Irrigation,
W77-00968 1002 3F

Irrigation Without Wastes,
W77-01047 1002 3F

Segmental Orifices with Shunt Meters to Totalize Pipeline Flow,
W77-04269 1009 8B

Getting Water from the Sun,
W77-05937 1012 3F

Effect of Leaching Fraction on River Salinity,
W77-09697 1020 5G

Here Comes the Sun.
W77-10518 1021 8C

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

IRRIGATION FREQUENCY

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

IRRIGATION OPERATION AND MAINTENANCE

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: II. Reducing Calcium Precipitation and Sodium Hazard,
W77-01286 1003 5G

Irrigation Districts Powers and Purposes.
W77-03515 1007 6E

Getting Water from the Sun,
W77-05937 1012 3F

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Operation and Maintenance of Irrigation and Drainage Systems: Section IV.----Maintenance.
W77-12712 1024 3F

IRRIGATION PERMITS

Lowrey v. Hodges (Temporary Permits to Use Ground Water for Irrigation).
W77-06567 1013 6E

Sale of Water Rights,
W77-08140 1017 6E

Benson V Burgess (Superior and Subordinate Rights to Irrigation Water).
W77-10476 1021 6E

IRRIGATION PRACTICE

Gravitational Irrigation System and Method of Installing,
W77-08895 1018 3F

IRRIGATION PRACTICES

Guidelines for Sediment Control in Irrigation Return Flow,
W77-00090 1001 5G

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Center Pivot Irrigation,
W77-00968 1002 3F

Non-Side-Splash Water Sprinklers,
W77-01197 1003 3F

Drip Irrigation Device,
W77-01213 1003 3F

Pipe-Following Irrigation Machine,
W77-01224 1003 3F

Pipe Insertable Emitter for Irrigation Systems,
W77-01225 1003 3F

Watering Apparatus Having Automatic Feed,
W77-01714 1004 3F

Hydraulic Actuated Load Sensing Governor,
W77-01715 1004 3F

Quick-Connect Fittings for a Trickle Type Irrigation System,
W77-01723 1004 3F

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Oscillating Sprinkler,
W77-01745 1004 3F

Peripheral Water Balance Control for Center Pivot Irrigation System,
W77-01754 1004 3F

Governor for Rotary Sprinkler,
W77-01755 1004 3F

Drip or Trickle Emitter for Use in Drip or Trickle Irrigation,
W77-01756 1004 3F

40 GPM. It Works If You Have Enough Wells,
W77-01762 1004 4B

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

Response of Cotton to Nitrogen and Water in a Tropical Environment. III. Fibre Quality,
W77-01910 1004 3F

Drip Irrigation Filtration Problems and Research,
W77-02090 1005 3F

Drip Irrigation Progress and Problems,
W77-02091 1005 3F

The Future of Automated Sprinkler Irrigation Systems,
W77-02092 1005 3F

Sprinklers for Multiple Use,
W77-02095 1005 3F

What's in the Future for Sprinkler Irrigation,
W77-02096 1005 4A

A New Technique for Conserving Water,
W77-02097 1005 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

Experts Cling to Water Myths,
W77-02120 1005 3F

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

Desert Food Factories,
W77-02176 1005 3C

Herbigation,
W77-02201 1005 3F

Irrigating Soybeans with Limited Water,
W77-02523 1005 3F

Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Effect of Drought Stress Frequencies at Different Growth Stages on Corn Yield,
W77-03143 1007 3F

Aerosol Production by Irrigation Equipment Used for Land Application of Waste Water,
W77-03484 1007 5A

The Effects of Streamflow Variation on Production and Income of Irrigated Farms Operating Under the Doctrine of Prior Appropriation,
W77-03637 1008 3F

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

Response of Two Peanut Cultivars to Irrigation and Kylar,
W77-06092 1012 3F

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Novel Irrigation System and Method for its Application,
W77-06450 1013 3F

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

Flow Controller Device,
W77-08017 1016 3F

Sprinkler Adapted for Attachment to the Ground,
W77-08025 1016 3F

Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

Flow Restrictor and Trickle Emitter,
W77-08879 1018 3F

Irrigation Sprinkling Apparatus with Adjustable Ground Contacting Elements,
W77-08886 1018 3F

Irrigation Drain Valve,
W77-08887 1018 3F

Rotary Water Sprinkler,
W77-08888 1018 3F

Sprinkler Having Improved Water Distribution,
W77-08899 1018 3F

Predicting Attainable Irrigation Efficiencies in the Upper Snake River Region,
W77-09137 1019 3F

Estimated Evapotranspiration and Irrigation Requirements for Citrus,
W77-09406 1019 2D

Traveling Irrigation Sprinkler,
W77-09811 1020 3F

A Water Sprinkler for Arbitrarily Shaped Areas,
W77-10166 1021 3F

Wind Effects on Water Application Patterns from a Large, Single Nozzle Sprinkler,
W77-10167 1021 3F

Irrigation Trial with Morro Bay Wastewater,
W77-10623 1021 5D

Irrigating with Wastewater in Sonoma County,
W77-10624 1021 5D

Automatic Closure Valve for Water Sprinkler,
W77-10999 1022 3F

Irrigation Signal,
W77-11008 1022 3F

Method and Apparatus for Transporting an Irrigation Line,
W77-11010 1022 3F

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Drip Irrigation with Saline Water and the Leaching of Soil by Means of Drip Irrigation,
W77-11062 1022 3C

Agrotechnical Principles for Water and Salinity Control in the Root Zone,
W77-11064 1022 3C

The Irrigation of Winter Tomatoes in the Arava,
W77-11068 1022 3F

Efficiency of Sprinkler Irrigation Systems,
W77-11084 1022 3F

Irrigation Control Using Tensiometers and Salinity Sensors,
W77-11404 1022 3F

Reducing Tailwater Runoff for Efficient Irrigation Water Use,
W77-11412 1022 3F

Characteristics of Percolate of Solid and Hazardous Waste Deposits,
W77-11721 1023 5E

Nematicide Application Through Porous Subsurface Irrigation Tubing,
W77-11960 1023 3F

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

Florida Installation Disperses Effluents Via Irrigation System.
W77-12436 1024 5G

Land Application of Effluents in the Rocky Mountain-Prairie Region,
W77-12489 1024 5E

Sprinkler Uniformity Measures and Skewness,
W77-12505 1024 3F

Automation of On-Farm Irrigation Turnouts Utilizing Jack-Gates,
W77-12507 1024 3F

Feasibility of Using Solar Energy to Drive Irrigation Pumps,
W77-12513 1024 3F

Computerized Irrigation Scheduling Method May Save Farmers Millions of Dollars.
W77-12518 1024 3F

Drip/Trickle Irrigation Generating Growth, Optimism,
W77-12521 1024 3F

Low-Cost Sand and Gravel Separator,
W77-12522 1024 3F

New Row Crop Drip Irrigation Use,
W77-12529 1024 3F

Salinity Management with Drip Irrigation,
W77-12530 1024 3C

Late Summer Irrigation and Establishment of Winter Annual Legumes in a Mediterranean-Type Climate,
W77-12532 1024 3F

High-Frequency Trickle Irrigation and Row Spacing Effects on Yield and Quality of Potatoes,
W77-12533 1024 3F

Effect of Leaf Shape on Response of Cotton to Plant Population, N Rate, and Irrigation,
W77-12534 1024 3F

Very-Low-Pressure Sprinkle Irrigation,
W77-12624 1024 3F

Irrigation Purge Valve,
W77-12698 1024 3F

Potential for Saline Water Irrigation of Tropical Soils,
W77-12744 1024 3C

On-Farm Water Management Practices for Alleviating Waterlogging and Salinity Problems in Pakistan,
W77-12763 1024 5G

Automation of an Open-Ditch Irrigation Conveyance System Utilizing Tile Outlets,
W77-12781 1024 4A

Water Use and Productivity of Wheat Under Five Irrigation Treatments,
W77-05221 1011 3F

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

United States V Tulare Lake Canal Company (Reclamation Laws Concerning Sale of Land in Excess of 160 Acres).
W77-08151 1017 6E

Molokai Irrigation and Water Utilization Project.
W77-09000 1018 6E

Water and Land Development (Water Resources Development).
W77-10493 1021 6E

U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

Feasibility of Using Solar Energy to Drive Irrigation Pumps,
W77-12513 1024 3F

IRRIGATION SCHEDULES
Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

IRRIGATION SCHEDULING
Irrigation Scheduling for Energy and Water Conservation,
W77-02093 1005 3F

Computer Irrigation,
W77-02098 1005 3F

'Tuning In' Saves Water, Boosts Yields on Sandy Soils,
W77-02196 1005 3F

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

Effective Precipitation of Various Application Depths,
W77-10168 1021 3F

Irrigation Schedules for Sugarbeets on Medium and Coarse Textured Soils in the Northern Great Plains,
W77-12126 1023 3F

Scheduling Center Pivot Sprinkler Irrigation Systems for Corn Production in Eastern Colorado,
W77-12138 1023 3F

Effects of Irrigation Scheduling and Coordinated Delivery on Irrigation and Drainage Systems,
W77-12504 1024 3F

Computerized Irrigation Scheduling Method May Save Farmers Millions of Dollars.
W77-12518 1024 3F

Irrigation Management of Short-Season, High-Density Cotton,
W77-12607 1024 3F

Optimal On-Farm Allocation of Irrigation Water,
W77-12719 1024 3F

Development and Evaluation of Evapotranspiration Models for Irrigation Scheduling,
W77-12779 1024 3F

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

IRRIGATION SCHEDULING MODELS
A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

IRRIGATION SYSTEM
Irrigation System,
W77-08019 1016 3F

IRRIGATION SYSTEMS
Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

An Experimental Buried Multiset Irrigation System,
W77-00317 1001 3F

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

Irrigation Without Wastes,
W77-01047 1002 3F

The Impact of Increased Energy Costs on Water Use and Agricultural Output in Northwestern Oklahoma,
W77-01056 1003 3F

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

Ferti-Irrigation - Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 1,
W77-01393 1003 3F

Ferti-Irrigation-Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 2,
W77-01394 1003 3F

Self-Correcting Linearly Movable Irrigation System,
W77-01730 1004 3F

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

Experts Cling to Water Myths,
W77-02120 1005 3F

The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

Qualitative Composition of Irrigation Water and Suspended Load of the Ordzhonikidze Irrigation System, (In Russian),
W77-02890 1006 5B

Determination of the Critical Depth for Bagaevsko-Sadki Irrigation System, (In Russian),
W77-02928 1006 3F

Annual Dynamics of Soluble Salts in the Soils of an Irrigated Field with Both Deep Closed and Open Drainage at the Bagaevsko-Sadkovskaya Irrigation System, (In Russian),
W77-02930 1006 3F

Aerosol Production by Irrigation Equipment Used for Land Application of Waste Water,
W77-03484 1007 5A

Drip Irrigation an Efficient Technique,
W77-04321 1009 3F

Garrison Diversion Unit Irrigation Project: Prospects and Problems, Part 2.
W77-04365 1009 6E

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Distribution Valve for Irrigation Channels,
W77-04950 1010 3F

Automatic Watering Installation,
W77-04955 1010 3F

Trickle Irrigation Design,
W77-05311 1011 3F

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

Chemical Activation of Groundwaters of the Ingul-Visun' Interfluve within the Yavkinsk Irrigation System, (In Russian),
W77-05952 1012 2G

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Reducing Power Consumption in Irrigation Systems with the Aid of a Mathematical Model for Pipe Dimensioning,
W77-07547 1015 3F

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

Fluid Flow Regulator,
W77-08018 1016 3F

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

Easily Movable Irrigation Sprinkler System,
W77-08880 1018 3F

Gravitational Irrigation System and Method of Installing,
W77-08895 1018 3F

Through the Andes.
W77-09687 1020 8A

Grove Irrigation System,
W77-09800 1020 3F

Remote Control for Large-Area Sprinkler Systems,
W77-09814 1020 3F

High-Frequency Irrigation for Water Nutrient Management in Humid Regions,
W77-10278 1021 3F

Quantification of Beneficial Effects of Sprinkler Irrigation Apart from Increase in Crop Yield, (In German),
W77-10726 1021 3F

New Solutions for Water Reservoirs in Irrigation Systems Fed by the Danube and Inland Rivers, (In French),
W77-10727 1021 3F

Brake Means for an Air-Powered Sprinkler System,
W77-11000 1022 3F

Reversible Self-Propelled Center Pivot Sprinkler System,
W77-11001 1022 3F

Irrigation Control Using Tensiometers and Salinity Sensors,
W77-11404 1022 3F

Development of a Solar Pump for Lift Irrigation Purposes,
W77-11428 1022 3F

Application of Herbicides through a Microjet Irrigation System,
W77-11558 1023 3F

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

A New Approach for Estimating Irrigation Conveyance Losses and Their Economic Evaluation,
W77-12164 1023 3F

A Model to Predict Total Energy Requirements and Economic Costs of Irrigation Systems,
W77-12503 1024 3F

Effects of Irrigation Scheduling and Coordinated Delivery on Irrigation and Drainage Systems,
W77-12504 1024 3F

Automation of On-Farm Irrigation Turnouts Utilizing Jack-Gates,
W77-12507 1024 3F

Low-Cost 'Bubbler' Irrigation System Developed.
W77-12517 1024 3F

Subterranean Irrigation, A Special Report on the PAT, Inc. System,
W77-12523 1024 3F

One Drop at a Time,
W77-12525 1024 3F

Minimum Energy Designs for Selected Irrigation Systems,
W77-12537 1024 3F

Analysis of High Frequency Furrow Irrigation,
W77-12539 1024 3F

Irrigation Management of Short-Season, High-Density Cotton,
W77-12607 1024 3F

Uniform Slurry Spreading with a Center Pivot Irrigation System,
W77-12612 1024 5D

The Corner System - A Variable Radii Center Pivot System,
W77-12621 1024 3F

Drip Irrigation - Worldwide 1975 Present Status and Outlook for Drip Irrigation,
W77-12629 1024 3F

Irrigation Tubing,
W77-12699 1024 3F

Center-Pivot Irrigation System,
W77-12709 1024 3F

Optimization of Subunit Dimensions for Pressurized Irrigation Systems,
W77-12710 1024 3F

Planning a Large Irrigation Project,
W77-12711 1024 3F

Operation and Maintenance of Irrigation and Drainage Systems: Section IV.----Maintenance.
W77-12712 1024 3F

Energy Economics in Pipe and System Selection,
W77-12715 1024 3F

Critical Irrigation Management Decisions,
W77-12716 1024 3F

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

IRRIGATION SYSTEMS WATER SUPPLY DEVELOPMENT

Design and Performance of a Simple Solar Pump for Lift Irrigation Purposes,
W77-11086 1022 3F

IRRIGATION UNIFORMITY

Uniformity of Distribution in Undertree Irrigation in Orchards,
W77-12508 1024 3F

IRRIGATION WATER

Guidelines for Sediment Control in Irrigation Return Flow,
W77-00090 1001 5G

Weather-Dependent Pricing for Water Resources in the Texas High Plains,
W77-00122 1001 3F

Optimum Utilisation of Water,
W77-01383 1003 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Seasonal Water Use of Irrigated Pasture Grasses Under Permanently-Set Irrigation as Related to Climatic Factors,
W77-02834 1006 3F

Qualitative Composition of Irrigation Water and Suspended Load of the Ordzhonikidze Irrigation System, (In Russian),
W77-02890 1006 5B

Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

Talley V Carley (Priorities to Water in 1963 Amendment to 82 Oklahoma Statutes Annotated Section 1-A).
W77-03521 1007 6E

Use of Effluents from Fermentation Plants for Field Irrigation (Ispol'zovanie stochnykh vod gidroliznykh zavodov dlya orosheniya polei),
W77-03814 1008 5D

Salt-Resistant Crops Coming,
W77-04312 1009 3C

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

Gypsum Requirement of Sodic Soils and Waters,
W77-04784 1010 2G

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Recycling Sewage Waste Resources and Soil Amelioration,
W77-04827 1010 5E

Studies on Soil Salinization and Alkalization as Affected by Irrigation Waters, (In Romanian),
W77-05190 1011 3C

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

Quality of Underground Irrigation water in the Semi Arid Tract of Agra District,
W77-06249 1013 3C

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

Water for Food - Or for More Important Purposes. (Reallocation of Irrigation Water to Cities and Industries),
W77-08377 1017 6E

Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

Water Resources and Water Utilization in Israel,
W77-09011 1018 6E

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

Chemical Quality of Irrigation Water Polluted with Nitrogen Compounds, (In Japanese),
W77-10156 1021 5B

Can Irrigation with Municipal Waste Water Conserve Energy,
W77-10579 1021 5E

Albuquerque Closes Water-Wastewater Cycle.
W77-10633 1021 5D

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Effects of Irrigation Management on the Quality of Irrigation Return Flow in Ashley Valley, Utah,
W77-11079 1022 5B

Studies on Appearance Mechanism of Rice Plant Damage by Irrigation Water Polluted With Nitrogen Compounds, (In Japanese),
W77-11515 1023 5B

Effect on Irrigation Water Quality, Sulfuric Acid and Gypsum on Plant Growth and on Some Physical and Chemical Properties of Pima Soil,
W77-11998 1023 3C

Irrigation Tailwater Loss and Utilization Equations,
W77-12506 1024 3F

One Drop at a Time,
W77-12525 1024 3F

Water-Table Management,
W77-12580 1024 4A

Drainage Practice in Imperial Valley, California,
W77-12581 1024 4A

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

Optimal On-Farm Allocation of Irrigation Water,
W77-12719 1024 3F

Quality Monitoring of Irrigation Water and Return Flows Irrigation Season 1974,
W77-12725 1024 5B

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Groundwater of Voyvodina, Its Quality and Applicability for Irrigation,
W77-12728 1024 5B

Resistance to Soda Salinization of Some Iraqi Soils,
W77-12730 1024 2G

Problems of Managing Geothermal Waters for Irrigation,
W77-12735 1024 3C

System for Managing Saline and Run-off Water for Fruit and Crop Production in Arid Regions of Mexico,
W77-12741 1024 3C

Yields and Acreage as Variables in Planning the Use of Saline Irrigation Water: A Case Study from Iran,
W77-12742 1024 3C

Chemical Reclamation of Solonetz-Solochaks in the Ararat Plain and the Possibility of Utilizing Saline Waters for Leaching and Irrigation,
W77-12743 1024 3C

Irrigation with Saline Water in South Texas,
W77-12745 1024 3C

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

Various Indices for Evaluating the Effective Salinity and Sodicity of Irrigation Waters,
W77-12752 1024 3C

Irrigation Management Where Salinity Sources and Sinks are Present,
W77-12760 1024 3C

Evaluating Improved Irrigation Water Management Technologies for Reducing Salt Pickup from Grand Valley,
W77-12764 1024 5G

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

Field Testing of a New System for Qualifying Irrigation Water,
W77-12769 1024 3C

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

IRRIGATION WELLS

Shunt Line Metering System for Irrigation Wells,
W77-01623 1004 8G

Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

A Computer Program for Estimating Costs of Owning and Operating an Irrigation Well Under Conditions of Declining Water Levels,
W77-03211 1007 6C

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

Irrigation Well Efficiency,
W77-04292 1009 8B

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

Water-Level Records for the Northern High Plains of Colorado, 1973-77,
W77-07486 1015 4B

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Groundwater Policies Now Lean Towards Management.
W77-08660 1018 4B

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

IRTYSH RIVER (KAZAKH-SSR)

Experience of the Pavlodar Oblast Public Health Service in Sanitary Protection of the Irtysh River, (In Russian),
W77-07686 1016 5G

ISE BAY (JAPAN)

Water Pollution of the Rivers Flowing Eastwards into the Bay of Ise, (In Japanese),
W77-04080 1008 5B

ISLANDS

Offshore Industrial-Port Islands,
W77-00176 1001 5G

Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

Acquisition of Property (Islands).
W77-03723 1008 6E

Sand and Gravel (Taking Materials from Rivers and Islands Belonging to the State).
W77-06082 1012 6E

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels).
W77-07280 1015 6E

Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

ISOBORNYL THIOCYANOACETATE

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

ISOHYETS

Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

ISOLATION

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

Fecal Coliform Analysis: Effects of Elevated Temperatures on Quantitative Recovery,
W77-02182 1005 5A

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

ISOLATION SIMULATOR

Electronic Isolation Simulator for Hydraulic Turbine Governor Alinement,
W77-07804 1016 8C

ISONVCHIA
Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

ISOPHORONE
Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

ISOPODS
Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

ISOPRENE
Photometric Determination of Isoprene and Neozone D in Water, (In Russian),
W77-01594 1004 5A

ISOSTATIC VARIATIONS
Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

ISOTOPE STUDIES
Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-08670 1018 5B

The Helium Isotopes in Thermal Fluids,
W77-08680 1018 5B

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-09917 1020 5B

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

Research on Efficient Water Use,
W77-12282 1024 2G

ISOTOPES
In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

ISOTOPIC STUDIES
Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Thermal and Isotopic Studies on the Crater Lakes of Monticchio (Lucania, Italy), (In Italian),
W77-07392 1015 2H

ISOTROPIC AQUIFERS
Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

ISOTROPIC IMPERMEABLE ROCK
Tests Show Jet-Drilling Hard Rock Potential,
W77-08667 1018 8E

ISRAEL
Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

Power Plant Site Evaluation: The Case of the Sharon Plant in Israel,
W77-07546 1015 6G

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

Production of Energy From Concentrated Brines by Pressure-Retarded Osmosis, 1. Preliminary Technical and Economic Correlations,
W77-08233 1017 3A

Enterovirus Types in Israel Sewage,
W77-08519 1017 5A

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Water Resources and Water Utilization in Israel,
W77-09011 1018 6E

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Source, Consumption and Use of Brackish Water in Israel,
W77-11061 1022 3C

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

Salinity Survey in Israel,
W77-12767 1024 2K

ISRAEL (ALEXANDER RIVER)
Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

ISRAEL (ARAVA)
Applicability of Commercial Reverse Osmosis Units for the Quality Improvement of Brackish Water Sources in the Southern Arava,
W77-11073 1022 3A

ISRAEL (FISH PRODUCTION)
Agricultural Wastes in Fish Farming. A Commercial Application of the Culture of Single-Celled Organisms for Protein Production,
W77-10050 1020 5E

ISRAEL (HAIFA-AKKO BAY AREA)
Industrial Use of Brackish and Saline Water in the Haifa Bay Area,
W77-11077 1022 3C

ISRAEL (HULA BASIN)
Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Peat Hydrology in the Hula Basin, Israel: II. Subsurface Flow Regime,
W77-05790 1012 2G

ISRAELI MEDITERRANEAN COAST
Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

ISREAL
Irrigation Without Wastes,
W77-01047 1002 3F

ITALY
Trieste--Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

Water Balance of Stipa Pennata Spp. Eriocaulis, Stipa Capillata and Festuca Vallesiace in the Steppe Region of the Upper Vinschagau, (In Germany9,
W77-00505 1001 2D

A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

Some Aspects of the Chemical Composition of Trapa Natans L. in Lake Maggiore (Italy), Especially Manganese and Iron, (In French),
W77-02250 1005 5C

The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

Bacteriological Characteristics of the Coast Waters in the District of Catania (Italy), (In Italian),
W77-04084 1008 5G

Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Characteristics of Silver Iodide Ice Nuclei Generators Currently Used by SO.R.E.M.,
W77-10309 1021 3B

ITALY (BRIANZA REGION)
A Note on the Synchronism of Highly Correlated Lakes,
W77-05142 1011 2H

ITALY (LAKE OF ORTA)
The Physical-Chemical Conditions of the Waters of the Lake of Orta During the Period from 1964 to 1970, (In Italian),
W77-01038 1002 5C

ITALY (PADUA)
The Algal Flora in the Thermal Baths of Montegrotto Terme (Padua). Its Distribution Over One-Year Period,
W77-06770 1014 5C

ITALY (SICILIAN COAST)
First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

ITALY (TIBER RIVER)
About the Presence of the Micromedusae Craspedacusta Sowerbyi Lake in the Umbrian Course of Tiber River, (In Italian),
W77-12467 1024 2I

ITERATIVE TECHNIQUES
On Solving the Infiltration Equation--A Comparison of Perturbation and Iterative Techniques,
W77-05348 1011 2G

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

IVAN'KOVO RESERVOIR (USSR)
Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

IVORY-COAST (LAMTO SAVANNA)
Deposition of Mineral Nitrogen by Rain in the Lamto Savanna, (In French),
W77-07574 1015 5B

IZHORA RIVER (USSR)
Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

IZMIR BAY (TURKEY)
Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

JACK-GATES
Automation of On-Farm Irrigation Turnouts Utilizing Jack-Gates,
W77-12507 1024 3F

JACK PINE TREES
Estimated Groundwater Yield Following Strip Cutting in Pine Plantations,
W77-01426 1003 4C

JACKSON LAKE (WYO)
Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

JACKSONVILLE (FLA)
Flood-Prone Areas of Jacksonville, Duval County, Florida,
W77-10557 1021 2E

JACOB MAERSK OIL TANKER
Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

JAIN EVAPORIMETER
Use of Constant Level Jain Evaporimeter in Scheduling Irrigation,
W77-01907 1004 2D

JAMAICA BAY (NY)
Effects of Hurricane Surge Barrier on Hydraulic Environment, Jamaica Bay New York; Hydraulic Model Investigation,
W77-02966 1006 8B

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

JAMES BAY (CANADA)
Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

JAMES RIVER BASIN (VA)
Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

JAMES RIVER ESTUARY (VA)
Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

JAMES RIVER (VA)
Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

JAMES RIVER (VIRGINIA)
A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

JAMMU AND KASHMIR (INDIA)
Severe Floods in Jammu and Kashmir in August 1973,
W77-12556 1024 2B

JAPAN
Waste Water Treatment at SCP (Semichemical Pulp), CGP (Chemigroundwood Pulp) Mills,
W77-00329 1001 5D

The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

Studies on the Incidence of Encysted Larvae of Paragonimus Mivazakii Kamo Et Al, 1961 in the Crab Potamon Dehaani in Shizuoka Prefecture, Japan, (In Japanese),
W77-01036 1002 5C

Studies on the Bottom Fauna of Five Lakes in Southern Hokkaido (Lakes Hikotsu-Ko, Kuttara-Ko, Toya-Ko, Hangetsu-Ko and Oshima O-Numa, (In Japanese),
W77-01037 1002 5C

Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

Disasters Caused by Flash Floods,
W77-01937 1004 2E

Operational Arrangement of Raingauge Stations in Forecasting Flash Floods,
W77-01938 1004 4A

Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

Increase of Sediment Transport Due to Large-Scale Urbanization,
W77-02790 1006 4C

On the Living Environment for Fish in the Coastal Waters Surrounding the New and Old Volcanic Island 'Nisi-No-Sima', (In Japanese),
W77-02917 1006 5C

Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

Water Pollution of the Rivers Flowing Eastwards into the Bay of Ise, (In Japanese),
W77-04080 1008 5B

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomer ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsuite),
W77-05320 1011 2E

Water Re-Use in Japan,
W77-05528 1011 5D

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Characteristics of the Severe Rainstorm,
W77-07784 1016 2B

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

Study on Economic and Policy Instruments for Water Management. Water Management in Japan.
W77-10360 1021 6E

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

Shoreline Protection in Japan,
W77-11041 1022 4D

Results of Freshwater Studies in the International Biological Program: Limnological Research in Japan, (In Russian),
W77-12987 1024 2H

JAPAN (AICHI-NARA-OSAKA)
Chemical Quality of Irrigation Water Polluted with Nitrogen Compounds, (In Japanese),
W77-10156 1021 5B

JAPAN (EASTERN HIKKAIDO)
Studies on the Bottom Fauna of Four Lakes in Eastern Hikkaido (Lakes Kusshyaro-Ko, Akan-Ko, Toro-Ko and Shikaribetsu Ko, (In Japanese),
W77-10028 1020 5C

JAPAN (HAKATA BAY)
Studies on the Mechanisms of Red Tide Occurrence in Hakata Bay: II. General Features of Red Tide Flagellate, Heterosigma sp., (In Japanese),
W77-10740 1021 5C

JAPAN (ISE BAY)
Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

JAPAN (KASUMIGAURA AREA)
An Investigation on the Disposal of Pig Excreta in Kasumigaura Area, (In Japanese),
W77-07571 1015 5B

JAPAN (KYOTO)
On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

JAPAN (MAKOMO VALLEY)
On the Counterplan for Treatment of Foul Water Which Oozed Out from A Dumping Ground, (In Japanese),
W77-04066 1008 5D

JAPAN (MINAMATA BAY)
The Accumulation of Mercury in Fishes Reared in the Sea Water Contaminated by Suspended Solids Containing Mercury, (In Japanese),
W77-06404 1013 5C

JAPAN (MIYAKE-JIMA)
Notes on the Nesting Success and Fecundity of the Anemonefish Amphiprion Clarkii at Miyake-Jima, Japan,
W77-06763 1014 5C

JAPAN (MONOBE RIVER)
Limnological Studies on the Three Dammed Lakes, Constructed in the Watercourse of the Monobe River, Kochi Prefecture, (In Japanese),
W77-12364 1024 5C

JAPAN (OMURA BAY)
Gymnodinium Type-'65 Red Tide in Occurring Anoxic Environment of Omura Bay, (In Japanese),
W77-10706 1021 5C

Growth of Gymnodinium Type-'65, Causative Organism of Red Tide in Omura Bay, in Medium Supplied with Bottom Mud Extract,
W77-10707 1021 5C

Succession of Red Tide Organisms in Omura Bay, with Relation to Water Pollution, (In Japanese),
W77-10997 1022 5C

JAPAN (SETO INLAND SEA)
Red Tide in the Seto Inland Sea, (In Japanese),
W77-10509 1021 5C

JAPAN (SHIMODA COAST)
Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

JAPAN (SHINSHU)
On the Aquatic Insect Communities in Shore Zones and Influents as Well as Effluents of Lakes in Shinshu, (In Japanese),
W77-10949 1022 2H

JAPAN (TAGONOURA-PORT)
Lightness and Color of the Sea Water in the Tagonoura-Port, (In Japanese),
W77-03965 1008 5A

JAPAN (TANOURA BAY)
Studies on Coastal Oceanography in Tanoura Bay, Izu Pennisula (1975-1974), (In Japanese),
W77-12980 1024 5B

JAPAN (YURAPPU RIVER)
Heat Balance in the Estuarine Region, (In Japanese),
W77-05291 1011 2L

JAPANESE ANCHOVY
The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

JAPANESE OYSTER SPAT
First Observations on the Introduction of the Fauna Associated with the Japanese Oyster Spat Crassostrea Gigas (Thunberg), Imported on the Atlantic Coast of France, (In French),
W77-12296 1024 2L

JAPANESE SARDINE
Significance of Egg and Larval Surveys in the Studies of Population Dynamics of Fish,
W77-05833 1012 2L

JEFFERSON COUNTY (ALA)
Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

JELLYFISH
Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

JEMEZ MOUNTAINS (NM)
Augmentation of 1968-1972 Winter Storms in New Mexico,
W77-03838 1008 3B

JERSEY CREEK (KS)
Special Flood Hazard Report: Jersey Creek, Kansas City, Kansas.
W77-07636 1016 4A

JET DRILLING
Rock Type Decides Jetting Economics,
W77-08666 1018 8C

Tests Show Jet-Drilling Hard Rock Potential,
W77-08667 1018 8E

JET FLOW
Short Jet Impingement,
W77-09016 1018 8B

JET OIL RECOVERY
Jet Oil Recovery Device,
W77-00261 1001 5G

JET PUMPS
It's All on the Nameplate: Everything You Always Wanted to Know About Jet Pumps,
W77-06854 1014 8C

JET TRAJECTORY
The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

JETS
Lock Wall Deicing with Water Jets: Field Tests at Ship Locks in Montreal, Canada and Sault Ste. Marie, Michigan,
W77-02156 1005 8C

Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

Simplified Analysis of Surface Buoyant Jet,
W77-06298 1013 5B

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

Method of Treating Waste Water with Jet Nozzles,
W77-07090 1014 5D

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

Short Jet Impingement,
W77-09016 1018 8B

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

JETTIES
Tidal Prism - Inlet Area Relationships,
W77-00664 1002 2L

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

JOB'S METHOD
An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

JOHANNESBURG
Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

JOHANNESBURG (SOUTH AFRICA)
Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

JOHN DAY DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

JOHNSTONE STRAIT (BRITISH COLUMBIA)
Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

JOHNSTONE STRAIT (CANADA)
Tidal Currents and Estuarine-Type Circulation in Johnstone Strait, British Columbia,
W77-03846 1008 2L

JOINT FISHING VENTURES
International Joint Ventures in Fishing and 200-Mile Economic Zones,
W77-00707 1002 6E

JOINT OPERATION
Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

JOINT PROBABILITIES
Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

JOINT TREATMENT
Joint Municipal Corporation Waste Water Treatment,
W77-07920 1016 5D

JOINTS (CONNECTIONS)
Plain End Pipe Means Production Efficiency,
W77-04660 1010 8G

Installation Tips on Large Submersibles,
W77-07289 1015 8C

Plain-End Pipe 'Collars' Problem Sewer Connections,
W77-08553 1017 8G

Drill String Makeup, Past, Present, Future,
W77-08648 1018 8C

Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

Buried Well Seals: A New Method of Reconstruction,
W77-12665 1024 5G

JOKULHLAUPS
Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

JONES ACT
Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

JONES FALLS (MD)
Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

JORDAN
Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

JORDAN RIVER (UTAH)
Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

JOSHUA TREE NATIONAL MONUMENT (CALIF)
Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

JOURNAL BEARING BITS
Metallurgical Developments Aid Bits, Tool Joints,
W77-12670 1024 8G

JP-4
Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

JP-8
Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

JP5 JET FUEL
The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

JUAN DE FUCA STRAIT (CANADA)
Numerical Model Studies of the Tides Between Vancouver Island and the Mainland Coast,
W77-03984 1008 2L

JUBAIL HARBOR (SAUDI ARABIA)
Stability of Rubble-Mound Breakwater Jubail Harbor, Saudi Arabia; Hydraulic Model Investigation,
W77-09984 1020 8B

JUDICIAL DECISIONS
Planning Level and Program Impact Statements under the National Environmental Policy Act: A Definitional Approach,
W77-00705 1002 6G

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Navigation Law, Section 89-b.
W77-01013 1002 6E

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

Idaho Water Resource Board V Kramer (Statutory Interpretation of Water Resources Board Comprehensive State Water Planning).
W77-01017 1002 6E

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Steinbeck V Philip Stenger Sons, Inc (Alteration of Higher Topography by Land Developer Causing Artificial Drainage onto Lower Property--The Taking Issue).
W77-01049 1002 2E

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Ownership on Navigable Waterbottoms--California Company V Price Revisited,
W77-01078 1003 6E

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

Cloverleaf Farms, Inc V Surratt (Common Enemy Doctrine: Surface Water).
W77-01113 1003 6E

Substantive Rights Under the National Environmental Policy Act,
W77-02067 1004 6E

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

The People's Lake,
W77-03594 1007 5G

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Kempf V Ellixson (Determination of Riparian Rights Where Land is Separated from Body of Water by Public Highway).
W77-03710 1008 6E

State V Aamodt (Reserved Water Rights of Pueblos Superior to State Appropriation Laws).
W77-04378 1009 6E

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

Gibbons V Globe Development, Nevada, Inc. (Adverse Use And Additional Supply Present Factual Questions Sufficient to Avoid Summary Judgement).
W77-06062 1012 6E

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

Wood V Woodcock (Rights of Adjoining Landowners to Seepage Water from Joint Irrigation Ditch),
W77-07278 1015 6E

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

United States V Osage Company (Removal of Sunken Boats Obstructing Navigable Waters Owner's Responsibility).
W77-08150 1017 6E

Winkle V Mitera (Riparian Rights of An Island Owner),
W77-08159 1017 6E

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

Mc Ilray V Hamilton (Permissive Use of Spring Overflow Defeats Prescriptive Right Claim),
W77-09006 1018 6E

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

Pitman v Washington Suburban Sanitary Commission (Environmental Effects Reports Only Required for State Actions).
W77-09573 1019 6E

Alabama Power Company v Martin (Power Company Estopped from Asserting Flood Easement Rights).
W77-11184 1022 6E

People v Texaco, Inc (County Regulation of Tidewater Bordering on or Lying Within its Boundaries).
W77-11204 1022 6E

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

JUDICIAL REVIEW

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

JUNCTIONS

Final Report of the Task Committee on Branching Conduits,
W77-11590 1023 8B

Some Basic Concepts on Flow in Branching Conduits,
W77-11591 1023 8B

Stream Junctions-A Probable Location for Bedrock Placers,
W77-12322 1024 2J

JUNCUS SPP

Transplantation of Juncus SPP. On Saline Soils in Egypt,
W77-12739 1024 3C

JUNGNEUNG-DONG (KOREA)

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

JUNHAE BAY (SO. KOREA)

Study on the Characteristic Distribution of Phosphate in Junhae Bay, (In Korean),
W77-01571 1004 5B

JUNIPER TREES

Clearing an Alligator Juniper Watershed with Saws and Chemicals: A Cost Analysis,
W77-01430 1003 4D

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

JURISDICTION

International Joint Ventures in Fishing and 200-Mile Economic Zones,
W77-00707 1002 6E

Train V Colorado Public Interest Research Group, Inc. (Conflict of Federal Water Pollution Control Act and the Atomic Energy Act).
W77-00987 1002 6E

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

LOS III: Prospects and Problems,
W77-04353 1009 6E

Water Laws of the United States: The Deficiencies and Degree of Effectiveness,
W77-04355 1009 6E

The Public Trust Doctrine: A Viable Approach to International Environmental Protection,
W77-04853 1010 6E

The New Equity in the Law of the Sea,
W77-05219 1011 6E

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

Enforcement of Oil Pollution Legislation,
W77-06543 1013 5G

Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

JUSTICIA AMERICANA

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

JUVENILE CHINOOK SALMON

Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids,
W77-05416 1011 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

JUVENILE FALL CHINOOK SALMON
Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

JUVENILE FISH
The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids,
W77-05416 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

Survival of Juvenile Fishes Receiving Thermal and Mechanical Stresses in a Simulated Power-Plant Condenser,
W77-05598 1011 5C

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

The Growth of Young Salmonids (Onchorhynchus Keta): Controlled Ecosystem Pollution Experiment,
W77-06618 1014 5A

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Production of Juvenile Alewives, Alosa Pseudoharengus, at Love Lake, Washington County, Maine,
W77-10779 1021 2H

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

JUVENILE FISH FRY
Survival Rate and Oxygen Consumption of Juvenile Wild Carp Maintained Under Different Conditions,
W77-06467 1013 5C

JUVENILE GROWTH STAGE
Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

On a Snail's Chances of Becoming a Year Old,
W77-06290 1013 5C

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

JUVENILE HORMONE MIMICS
Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

JUVENILE SALMONIDS
Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

JUVENILE STEELHEAD
Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

JUVENILES
Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

K-4 POLYMER
Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

KABUL RIVER (PAKISTAN)
Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

KAISER EFFECT (SNOW)
Kaiser Effect in Snow,
W77-02154 1005 2C

KAKHOVKA RESERVOIR (USSR)
Factors Determining Aspects of Fish Parasitofauna Formation in the Kakhovka Reservoir, (In Russian),
W77-02246 1005 5C

KALAMAZOO (MICH)
Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

KALMAN FILTERS
Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

KAMLOOPS LAKE (BRITISH COLUMBIA)
Short-Period Internal Waves in the Vicinity of a River-Induced Shear Zone in a Fjord Lake,
W77-11609 1023 2H

KANAWHA RIVER (W VA)
Water Pollution Control Law of 1972, Regional Impacts, Kanawha River.
W77-01975 1004 5G

KANECHLOR-600
PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

KANEOHE BAY (HAWAII)
Relationship Between Nitrogen Fixation (Acetylene Reduction) and the C:N Ratio in a Polluted Coral Reef. Ecosystem, Kaneohe Bay, Hawaii,
W77-10124 1021 5C

KANEOHE BAY (HI)
Water Quality Monitoring: Kaneohe Bay and Selected Watersheds July to December 1975,
W77-03826 1008 5B

KANPUR (INDIA)
Utilization of Algae by Some Common Fishes of Two Ponds,
W77-10148 1021 5C

KANSAS
Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Gowing V MC Candless (Crop Damage Resulting from Flooding of Obstructed Watercourse).
W77-00999 1002 6E

Biological Investigations of Tuttle Creek Reservoir, Kansas,
W77-01794 1004 5C

Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Thermal Plumes in the Kansas River,
W77-02187 1005 5B

SKYLAB Study of Water Quality,
W77-02505 1005 5A

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

The State of Kansas, State Water Plan Studies, Part B, Kansas Long Range Water Requirements.
W77-04852 1010 6B

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

Drainage Districts with Counties or Cities (Powers).
W77-06060 1012 6E

Obstructions in Streams,
W77-06079 1012 6E

Sand and Gravel (Taking Materials from Rivers and Islands Belonging to the State).
W77-06082 1012 6E

Navigable Waters (Aquisition, Title and Conveyance).
W77-06083 1012 6E

Land Forming Systems to Improve Water Use Efficiency,
W77-06761 1014 3F

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

Artesian Wells and Storage Reservoirs, and Works Connected Therewith.
W77-07263 1015 6E

Special Flood Hazard Report: Jersey Creek, Kansas City, Kansas.
W77-07636 1016 4A

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Microwave Remote Sensing of Soil Moisture,
W77-08066 1016 7B

Irrigation and Irrigation Districts.
W77-08396 1017 6E

Quantitative Water Quality with Landsat and Skylab.
W77-08431 1017 5A

Remote Sensing Applications in Kansas,
W77-08437 1017 4A

Hydrologic Unit Map--1974, State of Kansas.
W77-08477 1017 7C

Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Water-Level Changes in Northwestern Kansas, 1950-76,
W77-08742 1018 4B

Rural Water Districts in Kansas.
W77-09135 1019 6D

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

Evaluation of an Evapotranspiration Model for Corn,
W77-09941 1020 2D

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

Kansas Task Force to Develop Water Use Program to Resolve Serious Problems,
W77-10522 1021 4B

Streamflow Transmission Losses in Western Kansas,
W77-10966 1022 4A

Water Resources Data for Kansas, Water Year 1976.
W77-11374 1022 7C

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

The Effect of Feedlot Runoff on Community Structure in the Cottonwood River, Kansas,
W77-11972 1023 5C

KANSAS CITY (KA)
Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

KANSAS CITY (KS)
Special Flood Hazard Report: Jersey Creek, Kansas City, Kansas.
W77-07636 1016 4A

KANSAS DRAINAGE DISTRICTS
Drainage Districts with Counties or Cities (Powers).
W77-06060 1012 6E

KANSAS IRRIGATION DISTRICTS
Irrigation and Irrigation Districts.
W77-08396 1017 6E

KANSAS RIVER
Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

KANSAS RIVER (KA)
Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

KANSAS RIVER (KAN)
Thermal Plumes in the Kansas River,
W77-02187 1005 5B

KAOLIN
A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

KAOLINITE
Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

KAPLAN TURBINES
Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

KARA-KUM CANAL (TURKMEN-SSR)
Annotated Bibliography on Hydrobiology and Hydrochemistry of the Kara Kum Canal 1955-74, (In Russian),
W77-07540 1015 2I

KARA KUM CANAL (USSR)
Wind Erosion of Sand and Measures for Reclamation in the Zone of the Kara Kum Canal, (In Russian),
W77-00970 1002 4D

KARA SEA
Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

KARAKAYA DAM
The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

KARMAN INTEGRAL METHOD
Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

KARST
The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

Hydrology and Water Quality in the Central Kentucky Karst: Phase I,
W77-04602 1010 5B

Invertebrates and Organic Matter Swept along during Spates, at the Inlet and Outlet of the Karstic System of Baget, (In French),
W77-06007 1012 5B

KARST HYDROLOGY
The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

Hydrogeology of a Cavernous Limestone Terrane and the Hydrochemical Mechanisms of its Formation, Mohawk River Basin, New York,
W77-02022 1004 2F

Water Resources of the North Coast Limestone Area, Puerto Rico,
W77-06335 1013 4B

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

KASKASKIA RIVER (IL)
Flood Plain Information: Kaskaskia River and Tributaries, Coles County, Illinois,
W77-03175 1007 4A

KATHAROBIC WATERS
Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

KATTEGAT
Influence of Oxygen Tension on Metabolic Rate of Macrobenthos Species of Western Baltic and Kattegat, (In German),
W77-06274 1013 5C

KAWARTHA LAKES (ONTARIO)
Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

KAZAKH SSR
Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

KAZAKHSTAN
Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

KELP HABITAT IMPROVEMENT PROJECT
Kelp Habitat Improvement Project,
W77-02417 1005 2L

KELPS
Kelp Habitat Improvement Project,
W77-02417 1005 2L

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

KELVIN WAVES
Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

KENTUCKY
Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

Relationships Between Sorption and Desorption of Phosphorus by Soils,
W77-00298 1001 5B

Statistical Models for Precipitation,
W77-00537 1002 2B

Planning for Storm Water Management,
W77-00770 1002 6F

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

Survey of the Critical Natural, Historic and Recreational Areas in Kentucky.
W77-02063 1004 6B

Barkley Lock Prototype Tests Cumberland River, Kentucky,
W77-02960 1006 8B

Biological and Chemical Evaluation of the Aquatic Environment of Selected Undeveloped Kentucky Lake Embayments,
W77-03209 1007 5C

Hydrology and Water Quality in the Central Kentucky Karst: Phase I,
W77-04602 1010 5B

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Water Temperatures of Kentucky,
W77-05743 1012 7C

Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

United States V Ashland Oil and Transportation Company (Use of the Word 'Navigable Waters' in the Federal Water Pollution Control Act Amendments of 1972 Held to Mean 'Waters of the United States').
W77-07273 1015 6E

Application of EREP, LANDSAT and Aircraft Image Data to Environmental Problems Related to Coal Mining,
W77-08429 1017 5A

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

Water-Resources Investigations in Kentucky, 1976.
W77-09078 1018 7C

Potassium Status of Some Alluvial Soils in Kentucky,
W77-09290 1019 2G

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

Stochastic Models for Precipitation,
W77-10180 1021 2B

Coal Mine Water Pollution: An Acid Problem with Murky Solutions,
W77-11163 1022 5G

Hydrologic Unit Map--1974, State of Kentucky.
W77-11882 1023 7C

Water Resources Data for Kentucky, Water Year 1976.
W77-12389 1024 7C

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

KENTUCKY BLUEGRASS
Long-Term Evaluation of Slow-Release Nitrogen Sources of Turfgrass,
W77-09978 1020 3C

KENTUCKY WATERSHED MODEL
Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

KENYA
14C Evidence for the Origin of Arid Region Groundwater, Northeastern Province, Kenya,
W77-07611 1016 7B

U S Geological Survey, Water Resources Division, Radiocarbon Measurements I,
W77-08169 1017 4B

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

KENYA (RIFT VALLEY)
Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

KEPONE
Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

KERBS
Kerbs and Channels,
W77-01389 1003 8F

KERGUELEN ISLANDS
Heat Balance in the Ablation Area of the Ampere Glacier (Kerguelen Islands),
W77-06511 1013 2C

KERN COUNTY (CALIF)
Remote Sensing Inputs to Water Demand Modeling,
W77-08080 1016 7B

KERR RESERVOIR
Recording River and Reservoir Water Depth,
W77-09106 1019 7B

KESTRELS
Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

KETONES
Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

KETONIC SOLVENTS
Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

KEY SEAT
Good Planning Is The Key to Deviation Control,
W77-04289 1009 8C

KEYHOLE RESERVOIR
Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

KEYSTONE RESERVOIR (OK)
A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

KHAUZKHAN TRACT (USSR)
Salinization of Newly-Irrigated Desert Soils in the Khauzkhan Tract, (In Russian),
W77-04781 1010 3C

KICKAPOO RIVER (WIS)
Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

KIDNEY FUNCTION
Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

KIDNEY FUNCTION (FISH)
Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

KIEV RESERVOIR (UKRANIAN SSR)
Distribution Thickness and Certain Physical and Chemical Properties of Bottom Sediments in the Kiev Reservoir, (In Russian),
W77-07321 1015 2J

KIEV RESERVOIR (USSR)
Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

Primary Production of Green Filamentous Algae from the Kiev Reservoir, (In Russian),
W77-04070 1008 5C

The Distribution of Residual Quantities of DDT in the Organs and Tissues of Fish of the Kiev Reservoir, (In Russian),
W77-07572 1015 5B

KILKA
Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

KILLIFISHES
Thermal Tolerance of Stream Cyprinid Minnows,
W77-05561 1011 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

KILLIFISHS
Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

KINEMATIC WAVE EQUATIONS
Modeling of Soil Movement Across a Watershed,
W77-00159 1001 2J

Urban Runoff Digital Computer Model,
W77-12316 1024 2E

KINEMATIC WAVE MODEL
A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

KINEMATIC WAVE THEORY
Kinematic Wave Theory Applied to Stormflow from a Mountain Catchment,
W77-00950 1002 4C

KINEMATICS
Biohydrodynamic Channel for Field Trips, (In Russian),
W77-00417 1001 7B

KINETIC ADSORPTION MODELS
Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

KINETIC MODELS (SOILS)
Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

KINETICS
Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Denitrification of Wastewater Effluents with Methane,
W77-00609 1002 5D

Kinetics of Silicon-Limited Growth in the Freshwater Diatom Asterionella Formosa,
W77-02035 1004 5C

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

Design and Control of Nitrifying Activated Sludge Systems,
W77-03426 1007 5D

The Kinetics of Accumulation and Excretion of Ferric Hydroxide in Mytilus Edulis (L.) and its Distribution in the Tissues,
W77-04028 1008 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Kinetics of Chemical Degradation of Malathion in Water,
W77-04800 1010 5B

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

The Effect of High Purity Oxygen on the Activated Sludge Process,
W77-07043 1014 5D

Phosphates in Soils Treated with Sewage Water: III. Kinetic Studies on the Reaction of Phosphates with Aluminum Compounds,
W77-07054 1014 5B

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

Process Stability of Activity Sludge Processes,
W77-07857 1016 5D

Kinetics of Breakpoint Chlorination and Disinfection,
W77-08095 1016 5D

Mechanisms and Kinetic Parameters in Granular Media Filtration,
W77-08097 1016 5D

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

Occupational Characteristics and Biological Kinetic Constants of Extended Aeration Process,
W77-08270 1017 5D

Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

Biological Treatment Kinetics of Landfill Leachate,
W77-08532 1017 5D

Powdered Activated Carbon Addition to Biological Reactors,
W77-09599 1019 5D

Study of the Decomposition of Organic Matter by the Respirometric Dilution Method (Untersuchungen ueber das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verduennungsmethode),
W77-09888 1020 5D

Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

Relation Between the Kinetics of Nitrogen Transformation and Biomass Distribution in a Soil Column During Continuous Leaching,
W77-09973 1020 2G

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

Calcium Carbonate Precipitation Kinetics, Part I, Pure System Kinetics,
W77-10087 1020 5F

Denitrification Kinetics in Soil Systems: The Significance of Good Fits of Data to Mathematical Forms,
W77-10272 1021 2G

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

A Kinetic Analysis of Ammonia Removal by Chloramine Conversions on Activated Carbon,
W77-12141 1023 5D

Significance of Temperature in the Activated Sludge Process,
W77-12142 1023 5D

Biokinetics of Low Temperature Waste Assimilation,
W77-12143 1023 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

KINETICS OF ADSORPTION
The Kinetics of Adsorption of Phenols by Granular Activated Carbon,
W77-03149 1007 5D

KINGS CANYON NATIONAL PARK (CALIF)
A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

KINGSTOWN (RI)
The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

KIRCHNER MARSH (MINN)
Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

KIRKWOOD BRANCH (TX)
Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

KISHWAUKEE RIVER (IL)
Kishwaukee River Flood Plain Information, Winnebago County, Illinois.
W77-05288 1011 4A

KISSIMMEE-EVERGLADES AREA (FLA)
Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

KISSIMMEE RIVER BASIN (FLA)
Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

KITSAP COUNTY (WASH)
Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

KITSAP PENINSULA (WASH)
Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

KJELDHAL NITROGEN MEASUREMENTS
Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

KLAMATH DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

KLAMATH FALLS AREA (OREG)
Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

KLAMATH RIVER BASIN (ORE)
Klamath River Basin Compact.
W77-03705 1008 6E

KLEBSIELLA
Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

KNIFE RIVER (ND)
Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

KNOXVILLE (TENN)
Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

KOBE (JAPAN)
The Sanitary Landfill Leachate Control Plant in Kobe.
W77-08534 1017 5D

KODIAK ISLAND (ALAS)
Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

KOKOMO CREEK (IN)
Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

KOMI-ASSR
Chemical Composition of Lysimetric Waters of Podzolic Soils in the Komi ASSR, (In Russian),
W77-11442 1022 2G

KONAKOVO POWER STATION (USSR)
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

KOOTENAI RIVER (MONT)
A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

KOREA
On the Oceanographic Conditions of Oyster Farming Area Near Chungmu, (In Korean),
W77-00498 1001 2L

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

KOREA (BUAN FARMING AREA)
Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

KOTHE'S SPECIES DEFICIT
Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

KOTZEBUE SOUND (ALAS)
Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

KRAFT MILL EFFLUENTS
Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

KRAFT MILLS
Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

Chlorides in the Kraft Recovery System. I. Chlorides in the Recovery Boiler, and a Mechanism for Chloride Removal,
W77-02559 1005 5D

Chlorides in the Kraft Recovery System. II. Process and Equipment Aspects on a Closed Bleached Kraft Mill,
W77-02560 1005 5D

Effluent-Free Bleached Kraft Pulp Mill. VIII. Bleach Plant Renovation and Design,
W77-02562 1005 5D

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Design of an Efficient Water System for a Kraft Pulp Mill,
W77-03804 1008 5D

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

Foam Breaking--A Key Process in Detoxification of Kraft Mill Effluents by Foam Separation,
W77-10693 1021 5D

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

Determination of Contaminants in Kraft Mill Condensates Using Gas Chromatography (Stanoveni kontaminujicich latek v kondenzatech ze sulfatove celulozky pomoci plynove chromatografie),
W77-10712 1021 5A

Pulp Mill Condensates Cleaned Biologically with the Aid of Bark (Massafabrikernas kondensatvatten renas biologiskt med hjalp av bark).
W77-10719 1021 5D

Materials Balance and Pollution Load -- Example from the Pulp and Paper Industry (Bilan matieres et flux de pollution -- example de l'industrie de la pate a papier),
W77-12345 1024 5B

KRAFT PULP
Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W77-01669 1004 5B

KRASNODON
Need for Fluoridation of Drinking Water in Krasnodon, (In Russian),
W77-02338 1005 5F

KREMENCHUG RESERVOIR (USSR)
Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

Characteristics of the Distribution of Mollusks of the Family Unionidae in the Kremenchug Reservoir, (In Russian),
W77-02921 1006 2H

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

KUBAN ESTUARIES (USSR)
Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

KUBAN (USSR)
The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

KUBENA RIVER (USSR)
Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

KUIBYSHEV RESERVOIR (USSR)
Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

KURTLI RESERVOIR (USSR)
Phytomicrobenthos of the Kurtli Reservoir, (In Russian),
W77-07596 1015 5C

KUTCH (INDIA)
A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

KUWAIT
Water in Kuwait,
W77-12837 1024 3A

KUWAIT CRUDE OIL
Uptake and Retention of Kuwait Crude Oil and its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-04026 1008 5C

KUWAIT OIL
Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

LA CYGNE LAKE (KAN)
Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

LA HAVE RIVER
Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

LA PLATA BASIN
Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

LA PLATA RIVER (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

LABEO CAPENSIS
Aspects of the Growth and Reproduction of Labeo Capensis in the Caledon River,
W77-10194 1021 2E

LABORATORIES
Laboratory Rearing of Common Sole (Solea Solea L.) Under Controlled Conditions at High Density with Low Mortality,
W77-04528 1009 5C

Production Cycles in Aquatic Microcosms,
W77-09500 1019 5C

LABORATORY ANALYSIS
A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

LABORATORY ANIMALS
Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

LABORATORY EMERGENCIES
Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

LABORATORY EQUIPMENT
Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

A Diurnally Fluctuating Thermal System for Studying the Effect of Temperature on Aquatic Organisms,
W77-06291 1013 5C

Precision Live-Feeder for Flow-Through Larval Culture or Food Chain Bioassays,
W77-06420 1013 5A

Laboratory Apparatus for Providing Diel Temperature Regimes for Aquatic Animals,
W77-07188 1015 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

A Method for Cutting and Preparing Thin Sections of Frozen Soils,
W77-10802 1022 2C

Experimental Apparatus and Analysis Technique for Studying the Low Reynolds Number Hydrodynamic Behavior of Water-Borne Particulates,
W77-11137 1022 5A

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

An Ultrasonic Nebulization Technique for Adding Aqueous Solutions Uniformly to Dry Soils,
W77-11616 1023 2G

Water Intake by a Water-Filled Plexiglas Permeameter Cell,
W77-11617 1023 2G

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

Role of WES in the Development of Hydrodynamic Watershed Models,
W77-12107 1023 2A

LABORATORY METHODS
Effects of Long Term Exposure to Supersaturation of Dissolved Atmospheric Gases on Juvenile Chinook Salmon and Steelhead Trout in Deep and Shallow Test Tanks,
W77-04414 1009 5C

LABORATORY TECHNIQUES
The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

LABORATORY TESTS
A Procedure for the Sampling and Testing of Large Soil Cores,
W77-00286 1001 2G

Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

A New Technique for Rapid and Continuous Measurement of Redox Potentials,
W77-00299 1001 2G

Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

Suitability of Containers for Storage of Water Samples,
W77-00436 1001 5A

Free Surface Flow in a Channel of Large Relative Roughness,
W77-00649 1002 2E

Nitrogen Fixation in the Rhode River Estuary of Chesapeake Bay,
W77-01059 1003 5C

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Laboratory Testing of Water-Repellent Soil Treatments for Water Harvesting,
W77-01621 1004 4D

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Scouring of Cohesive Soils,
W77-02127 1005 2J

Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

Evaluation of the Ring Oven Technique for Water Monitoring, Appendices,
W77-02149 1005 5A

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Strength of Ice Under Multiaxial Loading,
W77-03301 1007 2C

Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

Interaction Between Aquatic Plants and River Bed Sediments in the Uptake of Mercury from Flowing Water,
W77-03671 1008 5C

Flow in Corrugated Pipes,
W77-03744 1008 8B

The Production and Recognition of Aeolian Features on Sand Grains by Silt Abrasion,
W77-03999 1008 2J

An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

Radial Movement of Saturated Zone Under Constant Flux: Theory and Application to the Determination of Soil-Water Diffusivity,
W77-04249 1009 2G

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Phase Relationships in Sea Ice as a Function of Temperature,
W77-05428 1011 2C

Towards a Routine Test for the Assessment of the Critical Tractive Forces of Cohesive Soils,
W77-05440 1011 2J

Determining Soil Water Diffusivities from One-Step Outflow Experiments,
W77-05531 1011 2G

Seepage from Small Earth Dams,
W77-05534 1011 8D

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

Effect of Cryogenic Processes on the Formation of Sodium Bicarbonate Waters,
W77-06507 1013 2K

Nonlinear Flow of Wave Crests Past a Thin Pile,
W77-06515 1013 8B

Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

Some Effects on Integral Photosynthesis of Artificial Circulation of Phytoplankton Through Light Gradients,
W77-06696 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

Laboratory Studies on the Effect of Metals on Oxygen Uptake by Sewage Sludge in Brackish Water,
W77-06788 1014 5C

Egg Incubation and Larval Rearing of Navaga (Eleginus Navaga Pall.), Polar Cod (Boreogadus Saida Lepechin) and Arctic Flounder (Liopsetta Glacialis Pall.) in the Laboratory,
W77-06792 1014 8I

Specific Yield Determinations from a Consolidated Sandstone Aquifer,
W77-07153 1015 2F

Compressibility and Strength of Compacted Dredgings,
W77-07350 1015 8D

Permeability and Drainage Characteristics of Dredgings,
W77-07351 1015 8D

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Transference: A Comprehensive Parameter Governing Permeation of Solutes Through Membranes,
W77-08231 1017 3A

Sorption and Flow of Carbon Dioxide and Some Hydrocarbons in a Microporous Carbon Membrane,
W77-08232 1017 5A

Impurity Concentrations in Sea Ice,
W77-08237 1017 2C

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

Added Mass of Pile Group,
W77-09018 1018 8B

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

Theoretical and Experimental Study of Flow Separation After a Sudden Increase in the Cross-Section of a Circular Pipe (Etude Theorique Et Experimentale D' Un Ecoulement Decolle En Aval D'Un Elargissement Brusque De Revolution),
W77-09034 1018 8B

A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

The Freezing Behaviour of Supercooled Water Drops,
W77-09118 1019 2C

The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

A Method for Sectioning Saturated Soil Cores,
W77-09436 1019 2G

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Evaporation from a Warm, Wavy Surface: A Laboratory Study,
W77-09954 1020 2D

The Effect of Copper on Competition Between Marine Algae,
W77-10051 1020 5C

The Motion of a Small Sphere in a Rotating Velocity Field: A Possible Mechanism for Suspending Particles in Turbulence,
W77-10108 1021 2L

The Influence of Zooplankton Anesthetising Substance Physostigmine Salicylicum on Photosynthesis,
W77-10149 1021 5C

Melting Rates of Various Size Hailstones in a Large Vertical Wind Tunnel,
W77-10307 1021 3B

How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

Influence of Soil Properties, Leaching Fraction, and Plant Water Uptake on Solute Concentration Distribution,
W77-11222 1022 2G

Experimental Studies of Wetting Front Instability Induced by Gradual Change of Pressure Gradient and by Heterogeneous Porous Media,
W77-11233 1022 2G

Use of a Versatile Experimental System for Soil Erosion Studies,
W77-11237 1022 2J

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

Vertical Drainage in Field Cores,
W77-12304 1024 2G

Stream Junctions-A Probable Location for Bedrock Placers,
W77-12322 1024 2J

Transient Wind Erosion: A Study of the Nonstationary Effect on Rate of Wind Erosion,
W77-12552 1024 2J

Studies of Earth Simulation Experiments,
W77-12568 1024 2B

Recovery of Energy from Fracture-Stimulated Geothermal Reservoirs,
W77-12680 1024 8E

Deposition and Erosion in an Alluvial Channel (Les Phenomenes de Deposition et D'erosion dans un Canal Alluvionnaire),
W77-12797 1024 2J

Attenuation of Waste Water Elutriated Through Glacial Outwash,
W77-12814 1024 5D

LABRADOR

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

LABRADOR CURRENT

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

LABRADOR SEA

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

LAC HERTEL (QUEBEC)

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

LACTIC ACID

Fermentation of Waste Materials to Produce Industrial Intermediates,
W77-03563 1007 5D

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

LACTOSE

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

LAFARGE LAKE (WIS)

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

LAGOA POELELA

The Limnology of Lagoa Poelela,
W77-01381 1003 2H

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

LAGOONS

Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Chemical Characteristics and Acute Toxicity of Foam on Two Aerated Lagoons,
W77-00752 1002 5C

Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

Plankton of Coastal Lagoons: XI. Transport in Three Estuaries of the Northwest of Mexico (November, 1973) (In Spanish),
W77-03145 1007 2L

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

Evaluation of Arsenic Concentrations in the Tulpehocken Creek Basin,
W77-06330 1013 5B

History of Dredging and Filling of Lagoons in the San Juan Area, Puerto Rico,
W77-06346 1013 5B

Wind and Current Patterns in an Arctic Coast Lagoon,
W77-07323 1015 2L

Prediction of Nitrogen Transformations in the Storage Lagoon of a Land Treatment System,
W77-08624 1018 5D

Neoplastic and Possibly Related Skin Lesions in Neotenic Tiger Salamanders from a Sewage Lagoon,
W77-08729 1018 5C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

Partial Analysis of the Microplankton in the Lagoon of Pueblo Viejo, State of Vera Cruz, Mexico, (In Spanish),
W77-10066 1020 2L

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

Lagoons and Oxidation Ponds, (Literature Review),
W77-11714 1023 5D

LAGRANGIAN DEFORMATIONS

Determination of Lagrangian Deformations from Analysis of Current Followers,
W77-00136 1001 2L

LAGUERRE FUNCTIONS

On the Derivation of Linkage Equations for Laguerre Function Coefficients,
W77-05794 1012 2B

LAGUNA

Phytoplankton of the Laguna Salada and Adjacent Area, Veracrux (September, 1973), (In Spanish),
W77-02859 1006 5C

LAKE

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

LAKE ABBAYA (ETHIOPIA)

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

LAKE ACIDIFICATION

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

LAKE ADHIKABUL (USSR)
Present State of Zooplankton and Zoobenthos of Lake Adzhikabul, (In Russian),
W77-00142 1001 2H

LAKE ALBERT (AFRICA)
Mass Mortalities of Lates (Pisces: Centropomidae) in Lake Albert,
W77-10191 1021 2H

LAKE ALTON (MO)
Advanced Waste Treatment Design Protects Lake Alton,
W77-08631 1018 5G

LAKE ANDSJON (SWEDEN)
Macrophytes and Phosphorus in Lake Andsjon, Central Sweden, (In Swedish),
W77-07582 1015 5C

LAKE ANNA (VA)
Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

LAKE APOPKA (FLA)
Lake Drawdown as a Method of Improving Water Quality,
W77-09516 1019 5G

LAKE ARBUCKLE (OKLA)
Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

LAKE BAIKAL (USSR)
Littoral Zooplankton of the Baikal Open Zone, (In Russian),
W77-00333 1001 2H

Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

The Law of Probability Distribution for the Zooplankton Biomass in Lake Baikal, (In Russian),
W77-12984 1024 2H

LAKE BALATON
Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

LAKE BALATON (HUNGARY)
The Effect of Agriculture on the Surroundings of Lake Balaton,
W77-02776 1006 5B

Studies of the Causes of Fish Mortality in Lake Balaton in 1975, (In Hungarian),
W77-12981 1024 5B

LAKE BALTYN (USSR)
Change of Benthic Complexes Under the Effect of Overgrowth in Eutrophic Lake Baltym, (In Russian),
W77-00140 1001 5C

LAKE BARRE
Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

LAKE BASINS
Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

LAKE BEDS
Submersible and Submerged Lands (State Ownership or Jurisdiction).
W77-10497 1021 6E

LAKE BERRYESSA (CALIF)
Interactions Between Population Density and Water Quality Parameters During a Dinoflagellate Bloom,
W77-09494 1019 5C

LAKE BIKCZE (POLAND)
Dynamics of Phytoplankton Biomass in Two Lakes of Different Limnological Character,
W77-06685 1014 5C

The Share of Algae with Different Dimensions in the Plankton of Two Lakes of Different Trophic Character in the Annual Cycle,
W77-06692 1014 5C

LAKE BORULLUS (EGYPT)
Some Effects of the Aswan High Dam on Water and Fishes of Lake Borullus, A. R. E.,
W77-02512 1005 5C

LAKE CARL BLACKWELL (OKLA)
Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

LAKE CARLSON (MINN)
Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

LAKE CARLTON (FLA)
Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

LAKE CHAD
Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

Food Selection in Tilapia Galilaea (Pices, Cichlidae) of Lake Tchad, (In French),
W77-04687 1010 2H

LAKE CHAMPLAIN
Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

LAKE CHAMPLAIN (VT)
Sedimentation Rates and Sediment Thicknesses in Lake Champlain: 1975-76,
W77-02193 1005 2J

Geologic and Physical Factors Affecting Lake Champlain Shoreline Erosion,
W77-02222 1005 2J

LAKE CHANGJA (KOREA)
On the Eutrophication in the Lake Changja, (In Korean),
W77-00344 1001 5C

LAKE CHIPPEWA (WISC)
Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

LAKE CIRCULATION
Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

LAKE CLASSIFICATION
Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

LAKE COLUMBIA (WISC)
Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

LAKE CONSTANCE
A Stochastic Point-Process Model for the Occurrence of Major Freezes in Lake Constance,
W77-05242 1011 2C

LAKE CONSTANCE (SWITZERLAND)
Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

LAKE COUNTY (FLA)
Hydrology of Lake County, Florida,
W77-02316 1005 4B

LAKE COUPURE (BELGIUM)
Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

LAKE CRESCENT (TASMANIA)
Lakes Sorell and Crescent - A Tasmanian Paradox,
W77-11534 1023 5C

LAKE CROWLEY (CALIF)
Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

LAKE CURRENTS
Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

LAKE CYGNE LAKE (KAN)
Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

LAKE DARDANELLE (ARK)
Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

LAKE DESTRATIFIER (PUMP)
Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

LAKE DOJRAN (YUGOSLAVIA)
Composition and Dynamics of the Bottom Animals in the Littoral Zone of Dojran Lake, Macedonia,
W77-07457 1015 5C

LAKE EDEBERG (GERMANY)
Analysis of the Population Dynamics of Oscillatoria Redekei Van Goor in Lake Edeberg,
W77-09629 1020 5C

LAKE EMILY (MINN)
Experimental Studies on Changing Algal Populations from Blue-Greens to Greens,
W77-10269 1021 5G

LAKE ENVIRONMENTS
The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

LAKE ERIE
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Numerical Models of Lake Currents,
W77-00722 1002 5B

Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

Municipal Phosphorus Loadings to Lake Erie, an Evaluation Study Prepared for the Great Lakes Water Quality Board.
W77-00926 1002 5B

Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

Water Pollution Control Act of 1972, Regional Impacts, Great Lakes-Lake Erie, (Volumes 1, 2, and 3).
W77-01979 1004 5G

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Seasonal Variations of Temperature and Nutrients in the Surface Waters of Lakes Ontario and Erie,
W77-02515 1005 5C

A Simple Dispersion Model of the Mean Concentration Field in the Western and Central Basins of Lake Erie,
W77-02795 1006 2H

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

Reconstruction of Some of the Early Storm Surges on the Great Lakes,
W77-02797 1006 2H

Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Impacts of the Deposition of Dredged Spoils on Lake Erie Sediment Quality and Associated Biota,
W77-03094 1007 5C

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

Bacterial Distributions in Lake Erie (1967, 1970),
W77-05227 1011 5C

The Fish Community in Lake Erie,
W77-05229 1011 5C

Seasonal Distribution and Abundance of Crustacean Zooplankton in Lake Erie, 1970.
W77-05233 1011 5C

Relationships of Phytoplankton Biomass with Soluble Nutrients, Primary Production, and Chlorophyll a In Lake Erie, 1970,
W77-05235 1011 5C

The Incidence and Effect of Once-Through Cooling on Young-of-the-Year Fishes at Long Point Bay, Lake Erie: A Preliminary Assessment,
W77-05597 1011 5C

Mercury in the Surficial Sediments of Lake Erie,
W77-05628 1012 5B

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

Nutrient Budgets for Lake Erie, 1970,
W77-06351 1013 5C

A Phosphorus Budget for Lake Erie,
W77-06365 1013 5C

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Lake Erie International Jetport Model Feasibility Investigation; The Wind-Driven Currents and Contaminant Dispersion in the Near-Shore of Large Lakes,
W77-08220 1017 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Modeling the Hydrodynamic Effects of Large Man-Made Modification to Lakes,
W77-09177 1019 5B

Environmental Changes in Lake Erie and Their Future Impact on Lake Resources.
W77-09454 1019 5C

Carbon Dioxide Exchange and Productivity in Lake Erie and Lake Ontario,
W77-09485 1019 5C

Seasonal Variations in Great Lakes Design Wave Heights: Lake Erie,
W77-09986 1020 8B

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Effects of Dissolved Oxygen on Survival and Behavior of Selected Fishes of Western Lake Erie,
W77-11514 1023 5C

LAKE ERIE

Limnological Studies of the Island Area of Western Lake Erie,
W77-11926 1023 2H

Environmental Impact on Property Values Along New York's Lake Erie Coastline,
W77-12960 1024 5G

LAKE ESROM (DENMARK)
Seasonal Variation in Sediment-Water Exchange of Nutrient Ions in Lake Esrom,
W77-07467 1015 5C

Population Ecology and Production of Benthic Detritivores,
W77-07979 1016 5C

Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

LAKE EYRE (AUSTRALIA)
Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

LAKE FARO (ITALY)
Mineralizing Microbial Activity in Lake Faro,
W77-07418 1015 5C

LAKE FISHERIES
Fish Fauna of Lakes of the Lower Reaches of the Zarafshan River and its Fishery Use, (In Russian),
W77-08708 1018 2H

LAKE GEORGE
Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

LAKE GEORGE (NEW YORK)
Nutrient Removal and Sludge Disposal Within Septic Systems-Phase III,
W77-06686 1014 5D

LAKE GEORGE (NY)
Ecological Modeling and Estimation of Stress,
W77-02622 1006 5C

Precipitation Chemistry Studies at Lake George: Acid Rains,
W77-03098 1007 5A

Cleaner: The Lake George Model,
W77-04495 1009 6G

Sediment Study, Lake George, New York: Trace Metals (Fe, Mn, Cu, Cr, Zn) Organic Carbon, Man's Activities,
W77-05231 1011 5C

Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

A General Model of Microbial Growth and Decomposition in Aquatic Ecosystems,
W77-06684 1014 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

LAKE GEORGE (UGANDA)
The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

LAKE GLUBOKOYE (USSR)
Comparative Characteristics of Zooplankton of Lake Glubokoye for 1972-1973 and in 1951, (In Russian),
W77-06455 1013 2H

LAKE GRIMSVOTN
Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

LAKE-GROUNDWATER RELATIONSHIPS
Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

LAKE HART (ONTARIO)
Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

LAKE HARTWELL (SC)
Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

LAKE HAVASU (ARIZ)
The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

LAKE HERRING
Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

LAKE HJALMAREN (SWEDEN)
Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

LAKE HURON
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02042 1004 5C

Large-Scale Current Measurements in Lake Huron,
W77-02473 1005 2H

Asbestiform Fibre Levels in Lakes Superior and Huron,
W77-02753 1006 5B

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

Saginaw Bay Water Circulation,
W77-12326 1024 2H

LAKE ICE
Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

Automated Seismic Monitoring System for Lake Michigan Ice Studies,
W77-02468 1005 2C

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

Lake Ontario Ice Modeling IFYGL, Phase 3, Final Report,
W77-05128 1011 2C

An Operational All-Weather Great Lakes Ice Information System,
W77-06527 1013 2C

Great Lakes All-Weather Ice Information System,
W77-06528 1013 2C

LAKE IN THE CLOUDS (MINN)
Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

LAKE ISEO (ITALY)
General Records and New Morphometric Data for an Environmental Study on Lake Iseo, (In Italian),
W77-01041 1002 2H

LAKE IZABAL (GUATEMALA)
Lake Izabal, Guatemala,
W77-07504 1015 5C

LAKE JACKSON (GEO)
Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

LAKE JEZIORAK (POLAND)
The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

LAKE JOCASSEE (SC)
A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

LAKE JOONDALUP (W.A.)
The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

LAKE KAINJI (NIGERIA)
The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

LAKE KARIBA
Comments on 'Fish Communities in Tropical Fresh Waters' by R. H. Lowe-McConnell,
W77-10382 1021 2H

LAKE KARIBA (AFRICA)
The Physico-Chemical Limnology of the Mwenda River Mouth, Lake Kariba,
W77-09614 1020 5C

LAKE KASUMIGAURA BASIN (JAPAN)
Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

LAKE KEOWEE (SC)
Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

LAKE KINNEREST (ISRAEL)
Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

LAKE KINNERET (ISRAEL)
The Role of Phosphate in Eutrophication. Stimulation of Plankton Growth and Residence Times of Inorganic Phosphate in Lake Kinneret Water,
W77-07517 1015 5C

LAKE KISHEMSKOE (USSR)
Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

LAKE KOOTENAY (BRITISH COLUMBIA)
Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

LAKE LA CALDERA (SPAIN)
First Report on the Limnology of the Alpine Lake La Caldera, in the Penibetic Mountains (Sierra Nevada, Granada, Spain),
W77-04150 1009 5C

LAKE LAHONTAN (NEV)
Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

LAKE LANIER (GEO)
Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

LAKE LEVEL
Differential-Head--Lake-Level Relationships in the Middle-Gulf Area, Florida,
W77-01922 1004 4B

LAKE LEVELS
An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Shoreline Property and Recreation,
W77-04190 1009 2H

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Hydrology,
W77-04191 1009 2H

Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

LAKE LOUDOUN (TENN)
The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

LAKE MAGADI BASIN (KENYA)
Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

LAKE MAGGIORE (ITALY)
Some Aspects of the Chemical Composition of Trapa Natans L. in Lake Maggiore (Italy), Especially Manganese and Iron, (In French),
W77-02250 1005 5C

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

LAKE MAHINERANGI (NEW ZEALAND)
Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

LAKE MALTA (POLAND)
Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

LAKE MANITOBA (CANADA)
Distribution and Seasonal Variation of Benthic Fauna in Lake Manitoba,
W77-09484 1019 5C

LAKE MAUREPAS (LA)
An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

LAKE MEAD (NEV)
Report on Pollution in Las Vegas Wash and Las Vegas Bay.
W77-03371 1007 5C

Segmented Population Model of Primary Productivity,
W77-09512 1019 5C

LAKE MEAD (NEVADA)
Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

LAKE MEMPHREMAGOG (QUEBEC-VE)
Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

LAKE MEMPHREMOGOG (QUE-VT)
Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

LAKE MENDOTA (WISC)
Temperature Limitation of Methanogenesis in Aquatic Sediments,
W77-11422 1022 5C

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

LAKE MEREDITH (TEXAS)
Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

LAKE MICHIGAN
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

Coastal Erosion in Eastern Lake Michigan,
W77-00842 1002 2J

Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

Automated Seismic Monitoring System for Lake Michigan Ice Studies,
W77-02468 1005 2C

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Scanning Thermal Plumes,
W77-02682 1006 5A

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Beach Processes, Perrien County, Michigan,
W77-03095 1007 2J

The Illinois Coastal Zone Management Program: First Year Work Product. Volume II. Coastal Geological Studies.
W77-03103 1007 2H

Water Quality in the Calumet Area. Conference on Pollution of Lower Lake Michigan, Calumet River, Grand Calumet River, Little Calumet River, and Wolf Lake, Illinois and Indiana.
W77-03382 1007 5B

Phytoplankton Response to Phosphorus and Silica Enrichments in Lake Michigan,
W77-03537 1007 5C

Environmental Status of the Lake Michigan Region. Vol. 17. Inland Fishes of the Lake Michigan Drainage Basin,
W77-03566 1007 6G

Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

The Behavior of Plutonium in Aquatic Ecosystems: A Summary of Studies on the Great Lakes,
W77-04519 1009 5C

Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Effects of the Palisades Nuclear Power Plant on Lake Michigan,
W77-05579 1011 5C

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Comparison of Benthic Diatom Communities in Lake Michigan and Lake Superior,
W77-06384 1013 5C

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

Lake Currents and Temperatures Near the Western Shore of Lake Michigan,
W77-06687 1014 2H

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

Pollution of Lake Michigan and Its Tributary Basin.
W77-09528 1019 5G

A Food Web Model for Lake Michigan: Part I-Justification and Development of the Model,
W77-09631 1020 5C

Environmental Status of the Lake Michigan Region: Vol. 4. Phytoplankton of Lake Michigan,
W77-10056 1020 5C

The Behaviour of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, I. Biological Transport, Seasonal Cycling, and Residence Times in the Water Column,
W77-10400 1021 5B

The Behavior of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, II. Patterns of Deposition in the Sediments,
W77-10401 1021 5B

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

Shore Stability and Beach and Bluff Protection Methods for the Illinois Shore of Lake Michigan.
W77-10502 1021 2J

Hydrogeologic, Geologic, and Engineering Aspects of Lake Michigan Surficial Deposits,
W77-10503 1021 2J

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Illinois Coastal Zone Management Program: Component Study of Biological Communities.
W77-10505 1021 2H

Maps of Shore and Nearshore Structures, Shore and Bluffline Positions, the 100-Year Anticipated Recession Line and Shore Ownership,
W77-10506 1021 2J

Dry Deposition Loading of Lake Michigan by Airborne Particularate Matter,
W77-10758 1021 5A

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

Water Resources Research Program - Nearshore Currents and Water Temperatures in Southwestern Lake Michigan, (June-December 1975),
W77-11131 1022 5A

Radiological and Environmental Research Division Annual Report, Ecology, January-December 1975.
W77-11132 1022 5C

The Association of Transuranic Elements with Lacustrine Sediments,
W77-11136 1022 5C

Biological Utilization and Regeneration of Silicon in Lake Michigan,
W77-11139 1022 5C

Dissolution of Amophous Silicon on Lake Michigan,
W77-11140 1022 5B

Seasonal Development of Phytoplankton Populations in Offshore Lake Michigan in 1975,
W77-11141 1022 5C

Vertical Distribution, Composition, and Abundance of Crustacean Zooplankton in the Offshore Waters of Lake Michigan,
W77-11142 1022 5C

The Utilization of Diatoms as a Food Source by Calanoid Copepods and the Abundance and Distribution of Zoodetritus in Southeastern Lake Michigan,
W77-11143 1022 5C

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

Thermal Discharge Residence by Lake Michigan Salmonids,
W77-11145 1022 5C

Summary of Recaptures of Fish Tagged at Two Power Plants Between 1972 and 1974,
W77-11147 1022 5C

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

LAKE MILNER (IDAHO)
Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

LAKE MONROE (IND)
Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

LAKE MORPHOLOGY
General Records and New Morphometric Data for an Environmental Study on Lake Iseo, (In Italian),
W77-01041 1002 2H

Limnological Data Report for the Maine Department of Environmental Protection--U. S. Geological Survey Cooperative Lake Studies Project,
W77-01414 1003 2H

Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

First Report on the Limnology of the Alpine Lake La Caldera, in the Penibetic Mountains (Sierra Nevada, Granada, Spain),
W77-04150 1009 5C

Lakes of Oregon: Volume 4. Clackamas County,
W77-05283 1011 2H

A Study of Glacier-Dammed Lakes Over 75 Years, Brimkjelen, Southern Norway,
W77-05427 1011 2H

Reservoir Basin Morphometry,
W77-05447 1011 4A

LAKE MORPHOMETRY
The Origin of Southern African Coastal Lakes,
W77-01356 1003 2H

Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

Lakes of Oregon: Volume 4. Clackamas County,
W77-05283 1011 2H

Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

LAKE MULEHE (UGANDA)
Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

LAKE NAIVASHA (EAST AFRICA)
Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

LAKE NAKURU (EAST AFRICA)
Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

LAKE NELSON (NJ)
Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

LAKE NHLANGE
The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

LAKE OBELIJA (LITHUANIA SSR)
Comparative Characteristics of the Parasite Fauna of Bream in Lakes Dusios, Obelijos, Salvantu and Galstas, Which Have Different Thermal Regimes, (In Russian),
W77-07312 1015 2H

LAKE OF GENEVA (SWITZ)
Biogeochemical Development of the Lake of Geneva (Switzerland) from 1957 to 1973: Part III, (In French),
W77-03144 1007 5C

LAKE OHRID (YUGOSLAVIA)
Limnological Studies in a Large, Deep, Oligotrophic Lake (Lake Ohrid, Yugoslavia). Evaluation of Nutrient Availability and Control of Phytoplankton Production Through In Situ Radiobioassay Procedures,
W77-10141 1021 5C

LAKE OKATIBBEE (MISS)
Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

LAKE OKEECHOBEE
Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

LAKE ONTARIO
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Probability Distribution of Concentrations Measured in the Wake of a Continuous Point Source in Coastal Currents,
W77-01927 1004 2H

Mathematical Modeling of Phytoplankton in Lake Ontario. Part 2. Simulations Using Lake 1 Model,
W77-02443 1005 5C

Seasonal Variations of Temperature and Nutrients in the Surface Waters of Lakes Ontario and Erie,
W77-02515 1005 5C

Circulation, Diffusion and Frontal Dynamics in the Coastal Zone,
W77-02794 1006 2H

Nitrogen in Sedimented Organic Matter from Lake Ontario,
W77-02815 1006 5C

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Lake Ontario Atlas: Land Use,
W77-04846 1010 2H

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

Lake Ontario Ice Modeling IFYGL, Phase 3, Final Report,
W77-05128 1011 2C

Radar-Gage Precipitation Measurements During the IFYGL,
W77-05130 1011 2H

Control of Mesoscale Disturbance by Synoptic Conditions,
W77-05138 1011 2H

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

Intermittent 'Full' Upwelling in Lake Ontario,
W77-05973 1012 2H

The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

Lake Ontario Atlas: Surface Waves,
W77-06884 1014 2H

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-07549 1015 2H

Satellite Observations of Water Quality,
W77-07554 1015 5A

Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

A Carbon Budget for Lake Ontario,
W77-07967 1016 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Carbon Dioxide Exchange and Productivity in Lake Erie and Lake Ontario,
W77-09485 1019 5C

Algal Nutrient Availability and Limitation in Lake Ontario During IFGYL. Part 1, Available Phosphorus in Urban Runoff and Lake Ontario Tributary Waters,
W77-10052 1020 5C

An Investigation of the Nearshore Region of Lake Ontario IFYGL.
W77-10053 1020 5C

Characteristics of Internal Oscillations in Lake Ontario,
W77-10331 1021 2H

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Lake Ontario Atlas: Lake Temperatures,
W77-10508 1021 2H

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

Lake Ontario Atlas: Chemistry,
W77-11654 1023 5C

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

Internal Free Oscillations in Lake Ontario,
W77-11800 1023 2H

A Three-Dimensional Model of Lake Ontario's Summer Circulation I. Comparison with Observations,
W77-11808 1023 2H

A Simple Model of Lake Ontario's Coastal Boundary Layer,
W77-11811 1023 2H

Design Wave Information for the Great Lakes; Report 2, Lake Ontario,
W77-12569 1024 8B

LAKE ONTARIO BASIN

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

LAKE OSCILLATIONS

Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

Characteristics of Internal Oscillations in Lake Ontario,
W77-10331 1021 2H

LAKE PIASECZNO (POLAND)

Dynamics of Phytoplankton Biomass in Two Lakes of Different Limnological Character,
W77-06685 1014 5C

The Share of Algae with Different Dimensions in the Plankton of Two Lakes of Different Trophic Character in the Annual Cycle,
W77-06692 1014 5C

LAKE PICCOLO (ITALY)

Thermal and Isotopic Studies on the Crater Lakes of Monticchio (Lucania, Italy), (In Italian),
W77-07392 1015 2H

LAKE PLUSSEE (GERMANY)

The Influence of Spring Circulation on Zooplankton Dynamics in the Plussee,
W77-07518 1015 5C

LAKE PONTCHARTRAIN

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

LAKE PONTCHARTRAIN AREA (LA)

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

LAKE PONTCHARTRAIN (LA)

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

LAKE POWELL (ARIZ)

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

LAKE POWELL (ARIZ-UTAH)

Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

LAKE POWELL (UTAH)

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

LAKE RADASJON (SWEDEN)

Effects on the Phosphorous Situation in Lake Radasjon on Changes in the Pollution Situation, (In Swedish),
W77-02227 1005 5C

LAKE RAYSTOWN (PA)

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

LAKE REDSTONE (WI)

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

LAKE REHABILITATION

Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

LAKE RENEWAL

Inland Lake Demonstration Project,
W77-06599 1013 5G

Influence of the Drainage Basin on the Eutrophication of the a-Mesotrophic Lake Piaseczno and Diseutrophication of the Pond Lake Bikcze,
W77-07452 1015 5C

LAKE RENEWAL EFFORTS

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

LAKE RESTORATION

Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

Limnological Data and Their Use in Practical Water Management, (In German),
W77-04657 1010 5G

Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

Lake Restoration by Bottom Water Siphoning (In German),
W77-06689 1014 5G

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Lake Restoration by Bottom Water Siphoning, (In German),
W77-07577 1015 5G

Chemical Interactions in a Eutrophic Lake,
W77-08002 1016 5C

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Lake Drawdown as a Method of Improving Water Quality,
W77-09516 1019 5G

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Experimental Studies on Changing Algal Populations from Blue-Greens to Greens,
W77-10269 1021 5G

LAKE ROOSEVELT

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

LAKE ROTORUA (NEW ZEALAND)

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

The Spacial Distribution of Groundwater Discharge into the Littoral Zone of a New Zealand Lake,
W77-09341 1019 2F

LAKE RUSALKA (POLAND)

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

LAKE SALLIE (MINN)

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

LAKE SAMMAMISH (WASH)

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

LAKE SANGCHRIS (ILL)

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

LAKE SEDIMENTS

Nutrient Status of the Sediments in Lake Mulwala, I. Total Phosphorus,
W77-00450 1001 5C

Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

Chlorophyll Degradation Product in Sediments of Lake Tega-Numa, (In Japanese),
W77-01604 1004 5C

The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

Sedimentation Rates and Sediment Thicknesses in Lake Champlain: 1975-76,
W77-02193 1005 2J

Nitrogen in Sedimented Organic Matter from Lake Ontario,
W77-02815 1006 5C

Impacts of the Deposition of Dredged Spoils on Lake Erie Sediment Quality and Associated Biota,
W77-03094 1007 5C

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Sediment Study, Lake George, New York: Trace Metals (Fe, Mn, Cu, Cr, Zn) Organic Carbon, Man's Activities,
W77-05231 1011 5C

Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

The Utility of Paleolimnological Analyses of Lake Sediments for Evaluating Acid Precipitation Effects on Dilute Lakes,
W77-08103 1017 5A

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Laminated Sediments in Holomictic Berkshire Lakes,
W77-08341 1017 2J

Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

A Comparative Study of Organic Carbon and Nutrients in Lake Sediment,
W77-09065 1018 5A

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

The Behaviour of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, I. Biological Transport, Seasonal Cycling, and Residence Times in the Water Column,
W77-10400 1021 5B

The Behavior of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, II. Patterns of Deposition in the Sediments,
W77-10401 1021 5B

Influence of Sediment Inflow in Phytoplankton Primary Productivity in Lake Tahoe (California-Nevada),
W77-10743 1021 5C

Sorption and Hydrolysis of Added Organic Phosphorus Compounds in Lake Sediments,
W77-10799 1021 5B

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

LAKE SEVAN
Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

LAKE SHASTA
Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

LAKE SHELBYVILLE (ILL)
Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

LAKE SHELLENBARGER (MICH)
Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

LAKE-SHORELAND MANAGEMENT
Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

LAKE SHORES
The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

A Plan for Michigan's Shorelands.
W77-00958 1002 6B

Geologic and Physical Factors Affecting Lake Champlain Shoreline Erosion,
W77-02222 1005 2J

Kempf V Ellixson (Determination of Riparian Rights Where Land is Separated from Body of Water by Public Highway).
W77-03710 1008 6E

Legal Aspects of Land Use Regulation of Lake Shorelands by State and Local Governments for the Protection of Lakes,
W77-04175 1009 6E

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Shoreline Property and Recreation,
W77-04190 1009 2H

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

The Effect of Salinity of Qarun Lake on the Adjacent Soil,
W77-11625 1023 2H

A Primer of Basic Concepts of Lakeshore Processes,
W77-12545 1024 2J

LAKE SIBAYA
Lake Sibaya - A Land-Locked Estuary,
W77-10099 1020 2H

LAKE SIBAYA (SOUTH AFRICA)
The Primary Production of Lake Sibaya, Kwazulu, South Africa,
W77-03376 1007 5C

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

LAKE SODRA BERGUNDASJON (SWEDEN)
Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

LAKE SORELL (TASMANIA)
Lakes Sorell and Crescent - A Tasmanian Paradox,
W77-11534 1023 5C

LAKE ST. CLAIR
Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

LAKE ST. CLAIR (MICH)
Lake St. Clair Beginning-of-Month Water Levels and Monthly Rates of Change of Storage,
W77-02675 1006 2H

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

LAKE ST LUCIA (SOUTH AFRICA)
Large Scale Mortality of Fish at St Lucia,
W77-10197 1021 2H

LAKE STAGES
The Origin of Southern African Coastal Lakes,
W77-01356 1003 2H

Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

LAKE SUPERIOR
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Fate of Selected Organic Compounds in the Discharge of Kraft Paper Mills into Lake Superior,
W77-00457 1001 5B

Persistent Organic Compounds from a Pulp Mill in a Near-Shore Freshwater Environment,
W77-00458 1001 5B

Asbestos in the Great Lakes Basin with Emphasis on Lake Superior, A Report to the International Joint Commission from the Great Lakes Research Advisory Board.
W77-00927 1002 5B

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

A Preliminary Report on the Benthic Macroinvertebrates of Lake Superior,
W77-01801 1004 5C

Lake Superior Bathythermograph Data,
W77-01912 1004 2H

Asbestiform Fibre Levels in Lakes Superior and Huron,
W77-02753 1006 5B

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

The People's Lake,
W77-03594 1007 5G

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Comparison of Benthic Diatom Communities in Lake Michigan and Lake Superior,
W77-06384 1013 5C

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

Transports in Lake Superior,
W77-07176 1015 5B

Observations on Bacteriological Conditions in the Upper Great Lakes 1968-1974,
W77-07340 1015 5A

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Photosynthetic Rates in Lake Superior,
W77-07450 1015 5C

Temperature Regime in Lake Superior at Silver Bay, Minnesota,
W77-07970 1016 1A

Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

United States v Reserve Mining Company (Discharge of Taconite Tailings into Lake Superior Causing Discoloration of Surface Water).
W77-10499 1021 6E

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

LAKE TAHOE
Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

LAKE TAHOE BASIN
Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

California-Nevada Interstate Compact.
W77-06575 1013 6E

LAKE TAHOE BASIN (CALIF-NEV)
The Lake Tahoe Study...as Requested by the 92nd Congress in Section 114 of the Federal Water Pollution Control Act of 1972.
W77-04168 1009 5G

LAKE TAHOE (CAL-NEV)
Spatial and Temporal Changes in the Primary Productivity of Lake Tahoe, California-Nevada Between 1959 and 1971,
W77-07443 1015 5C

LAKE TAHOE (CALIF)
The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

LAKE TAHOE (CALIF-NEV)
Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

The Structure of Phytoplankton Associations in Lake Tahoe (California-Nevada),
W77-07473 1015 5C

Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

LAKE TANGANYIKA
Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

LAKE TITICACA (PERU)
A Survey of the Biological Limnology of Lake Titicaca,
W77-07503 1015 5C

LAKE TITICACA (PERU-BOLIVIA)
A Survey of the Physical and Chemical Limnology of Lake Titicaca,
W77-07460 1015 5C

LAKE TJEUKEMEER (NETHERLANDS)
A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

LAKE TROUT
The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namavcush),
W77-10954 1022 5C

Formalin: Its Toxicity to Nontarget Aquatic Organisms, Persistence, and Counteraction,
W77-11309 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

LAKE TRUMMEN (SWEDEN)
Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

LAKE TYNWALD (POLAND)
The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

LAKE VANERN (SWEDEN)
Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

LAKE VATTERN (SWEDEN)
Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

LAKE VECHTEN (NETHERLANDS)
A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

LAKE VELENCE (HUNGARY)
Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

LAKE VICTORIA
Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

LAKE VICTORIA (AFRICA)
The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

LAKE VOLTA (GHANA)
The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

LAKE WABAMUN (ALBERTA)
The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

LAKE WASHINGTON SHIP CANAL (WASH)
Lake Washington Ship Canal,
W77-01001 1002 6E

LAKE WASHINGTON (WASH)
Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

LAKE WATER
Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

LAKE WAVES
Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

LAKE WHITEFISH
Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

LAKE WINGRA (WIS)
A Production Model for Myriophyllum Spicatum L.,
W77-10731 1021 5C

LAKE WINNIPEG (CANADA)
Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

LAKE YANEI-TY (USSR)
Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

LAKE ZELENETSKOE (USSR)
The Productivity of Fouling Organism Associations in Lake Zelenetskoe, (In Russian),
W77-08323 1017 5C

LAKE ZELLER (AUSTRIA)
The Time and the Cause of Extermination of Lake Balls from Lake Zeller, (In Japanese),
W77-01034 1002 5C

LAKELAND AREA (FLA)
Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

LAKELAND SAND
Drainage of Vertical Columns of Lakeland Sand,
W77-02510 1005 2G

LAKES
Causes and Alternative Solutions to the Water Quality Problems of Big Stone Lake, Western Minnesota-Northeastern South Dakota,
W77-00047 1001 5C

Is Nutrient Removal Worthwhile,
W77-00065 1001 5D

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

Seasonal Succession and Vertical Distribution of Phytoplankton in Lake Hayes and Lake Johnson, South Island, New Zealand,
W77-00517 1001 5C

Fecundity of Nelmuschka Coregonus Lavaretus Nelmuschka Pravdin and Its Ecological Background, (In Russian),
W77-00518 1001 2H

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

Numerical Models of Lake Currents,
W77-00722 1002 5B

Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
W77-00850 1002 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

The Temperature of Two Welsh Lakes and Its Effect on the Distribution of Two Freshwater Insects,
W77-00878 1002 5C

An Approach to a Relative Trophic Index for Classifying Lakes and Reservoirs. (A Preliminary Analysis of National Eutrophication Survey Data Collected During the 1972 Sampling Period).
W77-00930 1002 5C

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

Studies on the Bottom Fauna of Five Lakes in Southern Hokkaido (Lakes Hikotsu-Ko, Kuttara-Ko, Toya-Ko, Hangetsu-Ko and Oshima O-Numa, (In Japanese),
W77-01037 1002 5C

The Physical-Chemical Conditions of the Waters of the Lake of Orta During the Period from 1964 to 1970, (In Italian),
W77-01038 1002 5C

General Records and New Morphometric Data for an Environmental Study on Lake Iseo, (In Italian),
W77-01041 1002 2H

Leases of Lakes, Ponds, Streams and Reservoirs.
W77-01116 1003 6E

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

The Origin of Southern African Coastal Lakes,
W77-01356 1003 2H

Survey of Mgobezeleni Lake-System in Zululand, with a Note on the Effect of a Bridge on the Mangrove Swamp,
W77-01380 1003 2H

Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Limnological Data Report for the Maine Department of Environmental Protection--U. S. Geological Survey Cooperative Lake Studies Project,
W77-01414 1003 2H

Algae of the Lake Chad Region: I. General Characteristics of the Environment, (In French),
W77-01565 1004 2H

The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

Elements of Limnological Specificity of Large Lakes in the Temperate Zone, (In Russian),
W77-02260 1005 2H

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 3. Basins from Maryland to York River.
W77-02307 1005 7C

Surveying America's Lakes.
W77-02375 1005 5C

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

Some Effects of the Aswan High Dam on Water and Fishes of Lake Borullus, A. R. E.,
W77-02512 1005 5C

The Effect of Agriculture on the Surroundings of Lake Balaton,
W77-02776 1006 5B

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

Evaluation of the Phytoplankton Biomass in Lakes of the World, (In Russian),
W77-02816 1006 2H

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Organic Phosphorus in Lakes,
W77-03210 1007 5C

Wind-Induced Water Level Oscillations in Shallow Lagoons,
W77-03287 1007 2H

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

Data on Selected Lakes in Washington, Part 5,
W77-03350 1007 7C

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-03375 1007 5B

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Artificial and Natural Lakes,
W77-03694 1008 6E

Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

Estimate of the Suitability of Television Information from Meteorological Meteor Satellites for Determining Ice Conditions in Lakes and Reservoirs,
W77-03765 1008 2C

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

A Compendium of Lake and Reservoir Data Collected by the National Eutrophication Survey in the Northeast and Northcentral United States.
W77-03784 1008 5C

Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

Glacial Lake Sedimentation, Austerdalsisen, Norway,
W77-04005 1008 2J

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

Legal Aspects of Land Use Regulation of Lake Shorelands by State and Local Governments for the Protection of Lakes,
W77-04175 1009 6E

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

Cleaner: The Lake George Model,
W77-04495 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

Discharge of Treated Wastewater in Lakes, (In German),
W77-04595 1009 5B

Argulus in the Lake of Geneva, (In French),
W77-04655 1010 2H

Limnological Data and Their Use in Practical Water Management, (In German),
W77-04657 1010 5G

Food Pathways in Regulated Lakes, (In Swedish),
W77-04746 1010 2H

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

A Data Integration Study of Lake Ontario for the Episode July 19 - August 2, 1972. Part II,
W77-05126 1011 2H

Hydrodynamics of Large Lakes,
W77-05127 1011 2H

A Note on the Synchronism of Highly Correlated Lakes,
W77-05142 1011 2H

Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

A Stochastic Point-Process Model for the Occurrence of Major Freezes in Lake Constance,
W77-05242 1011 2C

Water-Quality Characteristics of Six Small Lakes in Missouri,
W77-05259 1011 5B

A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

Lakes of Oregon: Volume 4. Clackamas County,
W77-05283 1011 2H

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

A Study of Glacier-Dammed Lakes Over 75 Years, Brimkjelen, Southern Norway,
W77-05427 1011 2H

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

Laboratory Study of Unsteady Energy Transfer in Surface Layers of Stratified Water,
W77-06006 1012 2H

Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

Bay Springs Lake Water Quality Study,
W77-06087 1012 5B

Hydrologic Relations Between Lakes and Aquifers in a Recharge Area Near Orlando, Florida,
W77-06348 1013 4B

Inland Lake Watershed Analysis,
W77-06356 1013 5G

Maine Lake Water Quality Strategy.
W77-06357 1013 5C

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W77-06381 1013 5C

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

Comparative Characteristics of Zooplankton of Lake Glubokoye for 1972-1973 and in 1951, (In Russian),
W77-06455 1013 2H

Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

Inland Lake Demonstration Project,
W77-06599 1013 5G

Mixing in Upper Layer of a Lake During Heating Cycle,
W77-06649 1014 2H

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

The Share of Algae with Different Dimensions in the Plankton of Two Lakes of Different Trophic Character in the Annual Cycle,
W77-06692 1014 5C

Ecological Relations Between Invertebrates and Submerged Macrophytes in the Lake Littoral,
W77-06694 1014 5C

A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

Lake Ontario Atlas: Surface Waves,
W77-06884 1014 2H

Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

Water Quality and Chemical Models,
W77-07246 1015 5C

Succession Rates in Lake Phytoplankton Communities,
W77-07442 1015 5C

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Composition and Dynamics of the Bottom Animals in the Littoral Zone of Dojran Lake, Macedonia,
W77-07457 1015 5C

Pigment Cycle in a North German Lake,
W77-07459 1015 5C

A Survey of the Physical and Chemical Limnology of Lake Titicaca,
W77-07460 1015 5C

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

Surface Water Supply of the United States, 1966-70--Part 15. Alaska.
W77-07493 1015 7C

Lake Izabal, Guatemala,
W77-07504 1015 5C

Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Meromixis in Ulmener Maar (Germany).
W77-07520 1015 5C

Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

Model of a Lake Reservoir,
W77-07687 1016 4A

Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

Lakes Will Take the Pollution Load Off Old Father Tame,
W77-07913 1016 5G

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Optimal Growth Temperatures and Media Parameters of Bacterial Communities from Lakes of Different Trophic States,
W77-07994 1016 5C

The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

Transient Three-Dimensional Circulation of Lakes,
W77-08181 1017 2H

Lake Naivasha and Lake Nakuru: An Ecological Comparison Between Two Bird Lakes in East Africa, (In Swedish),
W77-08324 1017 2H

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Trophic Status of Inland Lakes from LANDSAT,
W77-08434 1017 5A

The Use of LANDSAT-1 Imagery for Water Quality Studies in Southern Scandinavia,
W77-08435 1017 5A

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

A Primer on Limnology,
W77-08605 1018 2H

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

Fish Fauna of Lakes of the Lower Reaches of the Zarafshan River and its Fishery Use, (In Russian),
W77-08708 1018 2H

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

The Use and Misuse of Pure Water PVT Properties for Lake Waters,
W77-08840 1018 2H

Inland Waters. Monographs from Limnology and Related Areas, Vol. 26, Part 1. The Zooplankton of Inland Waters,
W77-08861 1018 2H

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

A Comparative Study of Organic Carbon and Nutrients in Lake Sediment,
W77-09065 1018 5A

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

Modeling the Hydrodynamic Effects of Large Man-Made Modification to Lakes,
W77-09177 1019 5B

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

The Spacial Distribution of Groundwater Discharge into the Littoral Zone of a New Zealand Lake,
W77-09341 1019 2F

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

Lake Drawdown as a Method of Improving Water Quality,
W77-09516 1019 5G

Preservation of Certain Lakes as Health Resorts and Recreation Places.
W77-09576 1019 6E

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

The Physico-Chemical Limnology of the Mwenda River Mouth, Lake Kariba,
W77-09614 1020 5C

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

The Ecology of Chydoridae (Cladocera) of Lake Baikal (In Russian),
W77-10064 1020 2H

Lake Sibaya - A Land-Locked Estuary,
W77-10099 1020 2H

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

Effects of Artificially Introduced Ground Water on the Chemical and Biochemical Characteristics of Six Hillsborough County (Florida) Lakes,
W77-10139 1021 2H

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

Mass Mortalities of Lates (Pisces: Centropomidae) in Lake Albert,
W77-10191 1021 2H

Field Study of Evaporation - Analysis of Data From Eucumbene, Cataract, Manton and Mundaring,
W77-10376 1021 2D

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

Colonization of Imperiled Plants in Dredged Lakes of the Upper Rhine Plain, (In German),
W77-10730 1021 2H

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

Hydraulic Modeling of Mixing in Stratified Lakes,
W77-10798 1021 2H

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

The Seasonal Thermal Structure of Deep Temperature Lakes,
W77-11151 1022 2H

Studies on a Kentucky Knobs Lake: V. Some Aspects of the Vertical Transport of Heat in the Hypolimnion,
W77-11322 1022 2H

The Argillotrophic Lake System,
W77-11416 1022 5C

Substantiation of the Priestley and Taylor Parameter Alpha = 1.26 for Potential Evaporation in High Latitudes,
W77-11599 1023 2D

Short-Period Internal Waves in the Vicinity of a River-Induced Shear Zone in a Fjord Lake,
W77-11609 1023 2H

The Effect of Salinity of Qarun Lake on the Adjacent Soil,
W77-11625 1023 2H

Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

Incomplete Extraction of Rapidly Settling Particles from Water Samplers,
W77-11801 1023 2L

A Simple Model of Lake Ontario's Coastal Boundary Layer,
W77-11811 1023 2H

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

Our Shining Waters. A Film on Lake Eutrophication,
W77-12266 1024 6B

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

LAKES BALLS (CLADOPHORA)
The Time and the Cause of Extermination of Lake Balls from Lake Zeller, (In Japanese),
W77-01034 1002 5C

LAKES MARION-MOULTRIE RESERVOIR (SC)
Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

LAKES OF THE MENOMINEES (WI)
Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

LAMINAR FLOW
Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

Flow Regimes in Debris Flow,
W77-09045 1018 2J

LAMINATED ROCK
Rock Type Decides Jetting Economics,
W77-08666 1018 8C

LAMINATED SEDIMENTS
Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

Laminated Sediments in Holomictic Berkshire Lakes,
W77-08341 1017 2J

LAMINATION
The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

LAMPREYS
Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Oxygen Consumption, Ventilatory Frequency and Heart Rate of Lampreys (Lampetra Fluviatilis) During Their Spawning Run,
W77-07399 1015 5C

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

LAMPRICIDE
Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

LAMPRICIDES
Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

LANCASHIRE
Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

LANCASHIRE (ENGLAND)
Permeation Properties of the Bunter Sandstone of Northwest Lancashire, England,
W77-05793 1012 2F

LAND
Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

LAND ACQUISITION
People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

LAND AND WATER CONSERVATION FUND PROGRAM
Flood Plains for Open Space and Recreation.
W77-08374 1017 6F

LAND APPLICATION
Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Field Monitoring Techniques and Data Analysis,
W77-03150 1007 5A

Subsurface Application Solves Community's Sludge Disposal Problem.
W77-04707 1010 5D

Benefits of Spreading Whey on Agricultural Land,
W77-06215 1013 5D

Land Application of Waste Water, A Bibliography.
W77-09265 1019 5D

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Spray Irrigation-Waste Water Treatment Facility. North Branch Fire District No. 1, West Dover, Vermont.
W77-09828 1020 5D

Economic Potential and Management Considerations in Land Application of Beef Feedlot Wastes,
W77-11977 1023 5G

LAND APPLICATION SYSTEM (LAS)
Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

LAND CLASSIFICATION
Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

The Class One Equivalency for Certain Reclamation Projects (Hearings on H.R. 13101, Which Provides for Consideration of the Comparative Production Potential of Irrigable Lands in Determining Nonexcess Acreage Under Federal Reclamation Laws).
W77-11446 1022 4B

Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

LAND CLEARING
A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

LAND CONSERVATION
Water Conservancy Act.
W77-01011 1002 6E

LAND DEGRADATION
Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

LAND DEVELOPMENT
Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Wisconsin Natural Resource Use Controls and Assistance.
W77-00915 1002 6E

Effect of Land Development on Soil Erosion and Sediment Concentration in an Urbanizing Basin,
W77-02793 1006 4C

Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

The Environment of South Florida, A Summary Report,
W77-05738 1012 6G

Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Remote Sensing Applications in Kansas,
W77-08437 1017 4A

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

Urban Planning to Minimize Environmental Impact,
W77-09377 1019 6B

Effect of Waste Discharge Regulations on Real Property Development,
W77-11462 1022 5G

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

LAND DISPOSAL

Manure Disposal, Pollution Control, and the New York Dairy Farmer,
W77-01528 1003 5D

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Land Spreading of Manure from Animal Production Units,
W77-01544 1003 5E

An Ecological Blueprint for Today.
W77-01548 1003 5D

Land Disposal of Sewage Sludge, Volume III, April 1974 - March, 1975,
W77-02756 1006 5D

Land Application of Waste Materials.
W77-04607 1010 5B

Handling Dairy Wastes,
W77-04610 1010 5B

Confined Animals and Public Environment,
W77-04617 1010 5B

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Farm Waste Composting Process.
W77-04619 1010 5B

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Workshop Proceedings -- Research Needs Related to Recycling Urban Wastewater on Land,
W77-07607 1016 5D

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

Nitrogen Removal from Secondary Effluent by a Laboratory Soil Column,
W77-08607 1018 5B

LAND FORMING

Erosion and Sediment Control on Reshaped Land,
W77-00798 1002 4D

Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

Land Forming Systems to Improve Water Use Efficiency,
W77-06761 1014 3F

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

Rykar V Gill (State's Refusal to Allow Upland Owner to Fill Adjacent Marshland Because of Owner's Access to Deep Water by Use of Wharfing Techniques),
W77-09005 1018 6E

LAND IRRIGATION

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

LAND MANAGEMENT

Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

The Use of Multiple Objective Planning in the Bureau of Land Management,
W77-01161 1003 6B

Effects of Soil Conservation Treatment on Runoff and Sediment Loss from a Catchment in Southwestern New South Wales, Australia,
W77-02772 1006 4D

Soil Cover Governs Soil Loss on United States Claypan Soils,
W77-02787 1006 4D

The California Coastal Plan (A Symposium).
W77-03688 1008 6E

Desertification: Symptom of a Crisis,
W77-03737 1008 4C

Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

An Evaluation of Land Treatment of Municipal Waste Water and Physical Siting of Facility Installations,
W77-04635 1010 5D

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

Oregon Coastal Zone Land: Use, Ownership, and Value Change,
W77-05058 1010 6B

Using Representative Watersheds to Manage Forest and Range Lands for Improved Water Yield,
W77-05120 1011 4D

Land Disposal of Sewage,
W77-05526 1011 5D

Flood Plain Management Through Allocation of Land Uses – A Dynamic Programming Model,
W77-05720 1012 6F

A Study of Runoff from Small Rural Watersheds in Response to Completed and Proposed Land Use Changes,
W77-05728 1012 5B

California--'Saving the Coast',
W77-06048 1012 6G

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

People and the Sound. Water Management.
W77-06594 1013 6B

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Diminution Ratios for Planning Construction-Area Sediment Controls,
W77-06980 1014 4D

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

The Hydrology of a Small Catchment Basin at Samaru, Nigeria: IV: Assessment of Soil Erosion Under Varied Land Management and Vegetation Cover;
W77-08698 1018 4D

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

Citizen Perception of Coastal Area Planning and Development: A Study of the Attitudes and Knowledge of Louisianas,
W77-10932 1022 6B

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

LAND RECLAMATION

Beware The Wrath Of Osiris,
W77-00177 1001 4A

Wind Erosion of Sand and Measures for Reclamation in the Zone of the Kara Kum Canal, (In Russian),
W77-00970 1002 4D

Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

Munich's Contributions to Sewage, Fishery and Stream Biology, Vol. 26. Water for Land Reclamation Areas, (In German),
W77-01598 1004 5D

Project Proposal for Surface-Mined Land Enhancement (SMILE),
W77-01699 1004 5G

Strip-Mining Techniques to Minimize Environmental Damage in the Upper Missouri River Basin States,
W77-02445 1005 5G

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

California Water Project: Law and Politics,
W77-03583 1007 6E

Desert Repaired in Southeastern Oregon: A Case Study in Range Management,
W77-03742 1008 4D

Erosion Control,
W77-04315 1009 4D

Effect of Soil Reclamation on Hydrophysical Properties of Desert Takyr Soils, (In Russian),
W77-04799 1010 2G

What's Really Happening in Westlands,
W77-04921 1010 6E

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

Management Model for Wastewater Disposal on Land,
W77-05923 1012 5E

Glendo Reservoir; General Provisions.
W77-06073 1012 6E

Concepts for the Reclamation of Dredged Material,
W77-07352 1015 8D

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

Change of Salinity with Different Distances Between Drains Under Conditions of Northern Mugan, (In Russian),
W77-09630 1020 3C

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

Advantages of Using High Salt-Sodium Waters in the Reclamation of Gypsified Heavy-Textured Soil,
W77-11994 1023 2G

Reclamation of a Saline-Sodic Soil by the High Saltwater-Dilution Method,
W77-12035 1023 3C

Modification of a Calcareous Sodic Soil as Affected by Leaching with Saline Water,
W77-12277 1024 3C

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

Reclamation Law in Litigation: Acreage and Residency Limitations on Private Lands,
W77-12889 1024 6E

LAND RECLMATION

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

LAND RESOURCES

Workshop Report Integrating Water Quality and Water and Land Resources Planning.
W77-04202 1009 6B

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

LAND SPREADING

Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

LAND SUBSIDENCE

One-Dimensional Simulation of Aquifer System Compaction near Pixley, California: 2. Stress-Dependent Parameters,
W77-00490 1001 2F

Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Winkle V Mitera (Riparian Rights of An Island Owner),
W77-08159 1017 6E

Land Subsidence,
W77-08653 1018 4B

Fault Control of Subsidence, Houston, Texas,
W77-08662 1018 4B

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Ground Subsidence Due to Nonlinear Flow Through Deformable Porous Media,
W77-10763 1021 2F

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Land Subsidence and Cracking Due to Ground-Water Depletion,
W77-12803 1024 2F

LAND TENURE

Water and Water Rights,
W77-01119 1003 6E

California Water Project: Law and Politics,
W77-03583 1007 6E

Ownership of Water.
W77-03722 1008 6E

Acquisition of Property (Islands).
W77-03723 1008 6E

Oregon Coastal Zone Land: Use, Ownership, and Value Change,
W77-05058 1010 6B

United States V Tulare Lake Canal Company (Reclamation Laws Concerning Sale of Land in Excess of 160 Acres).
W77-08151 1017 6E

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

LAND USE

Ecological Impact of the Disposal of Municipal Sludge Onto Land,
W77-00027 1001 5E

Effects of Sewage Sludge or Effluent Application to Soil on the Movement of Nitrogen, Phosphorus, Soluble Salts and Trace Elements to Groundwaters,
W77-00029 1001 5C

Environmental Effects of Sludge Disposal in Sanitary Landfills,
W77-00030 1001 5C

Impact of Land Disposal of Sludges on Groundwater,
W77-00031 1001 5B

FDA's Overview of the Potential Health Hazards Associated with the Land Application of Municipal Wastewater Sludges,
W77-00034 1001 5E

A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

Municipal Watershed Management Survey,
W77-00608 1002 5B

The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

The Influence of Land Use on Stream Nutrient Levels,
W77-00725 1002 5C

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Effect of Land Use on Sediment Delivery Ratios,
W77-00777 1002 2J

Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

Sludge,
W77-01085 1003 5G

Federal Regulation of Development in Flood-Prone Wetlands--The Army Corps of Engineers,
W77-01094 1003 6E

The Use of Multiple Objective Planning in the Bureau of Land Management,
W77-01161 1003 6B

Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

Resource Inventory Management Planning System (RIMPS). User Manual,
W77-01294 1003 5G

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Municipal Watershed Management Survey,
W77-01422 1003 4D

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Optimizing Selection of Marine Retaining Walls,
W77-02072 1004 8F

Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

Geographic Areas of Particular Concern.
W77-02687 1006 2L

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

Prediction of Erosion Intensification by Man,
W77-02784 1006 4C

Soil Cover Governs Soil Loss on United States Claypan Soils,
W77-02787 1006 4D

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

Concentric Waste-Treatment Plant Saves Land, Cuts Cost,
W77-03427 1007 5D

Coastal Zone Management in Florida,
W77-03699 1008 6E

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

The Lake Tahoe Study...as Requested by the 92nd Congress in Section 114 of the Federal Water Pollution Control Act of 1972.
W77-04168 1009 5G

Land Use Planning: Important Tool for Controlling Water Demands,
W77-04173 1009 6D

Legal Aspects of Land Use Regulation of Lake Shorelands by State and Local Governments for the Protection of Lakes,
W77-04175 1009 6E

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Land Use Patterns, Eutrophication and Pollution in Selected Lakes,
W77-04298 1009 5C

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

Education in Land Use Decision Making,
W77-04486 1009 6B

Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

An Evaluation of Land Treatment of Municipal Waste Water and Physical Siting of Facility Installations,
W77-04635 1010 5D

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Salinization of Newly-Irrigated Desert Soils in the Khauzkhan Tract, (In Russian),
W77-04781 1010 3C

The Management of Urban Coastal Resources,
W77-04845 1010 6B

Lake Ontario Atlas: Land Use,
W77-04846 1010 2H

Effects of Off-Road Vehicle Use on the Hydrology and Landscape of Arid Environments in Central and Southern California,
W77-04980 1010 4C

Sediment-Control Methods in Urban Development: Some Examples and Implications,
W77-04982 1010 4D

Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

Oregon Coastal Zone Land: Use, Ownership, and Value Change,
W77-05058 1010 6B

Coastal Zone Management and Intergovernmental Coordination,
W77-05059 1010 6E

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

A Study of Runoff from Small Rural Watersheds in Response to Completed and Proposed Land Use Changes,
W77-05728 1012 5B

Environmental Impacts of Land use Change,
W77-05922 1012 6G

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

California--'Saving the Coast',
W77-06048 1012 6G

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Inland Lake Demonstration Project,
W77-06599 1013 5G

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

Flood Management Study.
W77-06952 1014 6F

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Hydrologic Differences Between Selected Forested and Agricultural Soils in Hawaii,
W77-07765 1016 2G

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Land Use Classification for Hydrologic Models using Interactive Machine Classification of Landsat Data,
W77-08074 1016 7B

Sediment Yield and Land Use in Southwest United States,
W77-08178 1017 4D

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

The 1972 Water Pollution Control Act: Unforeseen Implications for Land Use Planning,
W77-08373 1017 5G

Wildlife Management by Habitat Units--A Preliminary Plan of Action,
W77-08426 1017 4A

LANDSAT-1 Data as it has Been Applied for Land Use and Water Quality Data By the Virginia State Water Control Board,
W77-08432 1017 5A

A Finite Element Model to Determine the Effect of Land-Use Changes on Flood Hydrographs,
W77-08450 1017 8B

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

Water--An Element of Land-Use and Urban Growth Policies,
W77-08872 1018 6B

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

Environmental, Fiscal and Socio-Economic Impact of Land Use Policies: Toward an Interactive Analysis,
W77-09196 1019 6B

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Water Resource and Land Use Problems in Western Australia,
W77-09296 1019 4C

Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

Economic Incentives for Land Use Control,
W77-09467 1019 6B

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

Land Use Control in the Coastal Zone: The Delaware Example,
W77-09533 1019 6F

Regulating Development Along the California Coast,
W77-09534 1019 4A

The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

Effect of Land Use Management on Flood Predictions,
W77-10181 1021 4C

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

Prescriptive Models for Nonstructural Floodplain Planning,
W77-10847 1022 6F

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

Dredged Material as a Natural Resource,
W77-10962 1022 5E

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Forest and Water Reserve Zones.
W77-11196 1022 6E

Resources and Land Investigations (RALI) Program.
W77-11368 1022 7C

Factors Influencing Natural Water Quality and Changes Resulting from Land-Use Practices,
W77-11425 1022 5C

Connections Between Climate and Desertification,
W77-11629 1023 2B

A Multicriteria Analysis for Water Resource and Land Use Development,
W77-11773 1023 6A

Planning for Implementation Under Section 208,
W77-11776 1023 5G

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

Flood Plain Information: River Rouge, Michigan, Main, Evans Ditch, and Franklin Branches in Wayne and Oakland Counties.
W77-11838 1023 4A

Flood Plain Information: Atlanta, Texas: Black Bayou and Tributaries.
W77-11840 1023 4A

Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

Flood Plain Information: Saco River, Fryeburg, Maine.
W77-11847 1023 4A

The California Coastal Plan: A Critique,
W77-11855 1023 6B

Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

Resource Use Efficiency of Irrigated Farms in Borunda Tube-Well Command Area, Rajasthan,
W77-12279 1024 3F

Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

Hutchinson Island: Evaluation as a Potential Area of Critical State Concern.
W77-12585 1024 6G

Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Impacts of Water Availability on Residential Development,
W77-12891 1024 6D

LAND USE CONTROLS

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

LAND USE DECISION-MAKING SYSTEM (LUDMS)

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

LAND USE MANAGEMENT

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

LAND USE PLANNING

The California Coastal Plan (A Symposium).
W77-03688 1008 6E

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

LAND-WATER COVER TYPES

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

LANDFAST ICE

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

LANDFILL

Ground-Water Pollution Near a Landfill,
W77-03991 1008 5B

Options for Sludge--To Land, Sea or Fire,
W77-09918 1020 5E

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

LANDFILL LEACHATE

Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

LANDFILLS

Environmental Effects of Sludge Disposal in Sanitary Landfills,
W77-00030 1001 5C

Scour and Fill in an Ephemeral Stream,
W77-00827 1002 2J

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Considerations for Land Disposal of Paper and Pulp Mill Sludge,
W77-01654 1004 5E

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

Gas and Leachate from Landfills: Formation, Collection, and Treatment. Proceedings of a Research Symposium.
W77-02394 1005 5E

Introduction to Symposium on Gas and Leachate from Landfills: Formation, Collection, and Treatment,
W77-02395 1005 5E

Current Office of Solid Waste Management Programs - Landfill Activities,
W77-02397 1005 5E

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Leachate Attenuation in Undisturbed and Remoulded Soils,
W77-02403 1005 5B

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Attenuation Mechanisms of Pollutants Through Soils,
W77-02408 1005 5B

Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

Assessing Synthetic and Admixed Materials for Lining Landfills,
W77-02410 1005 5E

Landfill Management with Leachate Recycle and Treatment: An Overview,
W77-02411 1005 5D

Solid Waste Degradation Due to Shredding and Sludge Addition,
W77-02412 1005 5E

Case History of Landfill Gas Movement Through Soils,
W77-02413 1005 5E

An Experimental High-Ash Paper Mill Sludge Landfill: Second Annual Report,
W77-02555 1005 5E

An Experimental High-Ash Paper Mill Sludge Landfill: First Annual Report,
W77-02556 1005 5E

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

Generation of Leachate from Landfills and Its Subsurface Movement,
W77-04134 1009 5B

System Prevents Leachate Formation.
W77-04136 1009 5G

Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Organic Leachate Threatens Groundwater Quality,
W77-04870 1010 5B

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

Treatment of Leachates from Sanitary Landfills,
W77-05331 1011 5D

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

Time-Dependent Development of Strength in Dredgings,
W77-05966 1012 5G

Tri-County Landfill Company V Illinois Pollution Control Board (Landfills Polluting Waters Termed Hazards).
W77-06066 1012 6E

New York City Area Examines Alternative to Ocean Dumping.
W77-06143 1013 5E

Pennsylvania Uses Liners to Control Ground Water Contamination from Landfill Operations,
W77-06172 1013 5G

Leachate Plumes in a Highly Permeable Aquifer,
W77-06331 1013 5B

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

What's New in Landfill Liners.
W77-07051 1014 5G

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

Biological Treatment Kinetics of Landfill Leachate,
W77-08532 1017 5D

The Sanitary Landfill Leachate Control Plant in Kobe.
W77-08534 1017 5D

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-08670 1018 5B

The Design of a System for Collecting Leachate from a Lined Landfill Site,
W77-08827 1018 5G

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-09917 1020 5B

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

Migration of Landfill Leachate Through Glacial Tills,
W77-10968 1022 5B

Characteristics of Percolate of Solid and Hazardous Waste Deposits,
W77-11721 1023 5E

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

Residual Waste Best Management Practices: A Water Planner's Guide to Land Disposal,
W77-12076 1023 5E

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

Water Quality Management--Waste Disposal: A Water Authority Viewpoint,
W77-12428 1024 5E

Process for Sludge Disposal and Circular Landfill System,
W77-12920 1024 5E

LANDFORM DEVELOPMENT
Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

LANDFORMS
Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

LANDSAT
Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02042 1004 5C

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

An Operational Application of Satellite Snow Cover Observations - Northwest United States,
W77-02496 1005 2C

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

Retransmission of Hydrometric Data in Canada,
W77-02506 1005 7C

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Volume I-A, Technical Session Presentations, Agriculture-Environment.
W77-08408 1017 7B

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

Operational Applications of Satellite Snowcover Observations.
W77-10662 1021 2C

An Overview of the Applications System Verification Test on Snowcover Mapping,
W77-10663 1021 2C

LANDSAT 1
Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

LANDSAT-1 DATA
Satellite Observations of Water Quality,
W77-07554 1015 5A

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

LANDSAT DATA
Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

Operational Applications of Satellite Snowcover Observations in Rio Grande Drainage of Colorado,
W77-10666 1021 4A

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

Utilization of LANDSAT Monitoring Capabilities for Snowcover Depletion Analysis,
W77-10670 1021 2C

Operational Use of LANDSAT Imagery for the Estimation of Snow Areal Extent,
W77-10671 1021 7B

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

Approaches to Digital Snow Mapping with LANDSAT-1 Data,
W77-10677 1021 2C

Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

Snowcover Mapping by Machine Processing of SKYLAB and LANDSAT MSS Data,
W77-10681 1021 2C

A Comparison of Operational and LANDSAT-Aided Snow Water Content Estimation Systems,
W77-10683 1021 2C

Remote Sensing of Snowpack Density Using Shortwave Radiation,
W77-10685 1021 2C

Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

Application of LANDSAT Data to Delimitation of Avalanche Hazards in Montane Colorado,
W77-12567 1024 2C

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

LANDSAT DIGITAL TAPES
Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

LANDSAT IMAGES
Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

LANDSCAPING
The Power Park Concept: Ameliorating Man's Disorder with Nature's Order,
W77-05542 1011 5C

The Utility of Computers in Landscape Planning, the Selection and Application of a Computer Mapping and Assessment System for the Metropolitan Landscape Model (METLAND),
W77-09151 1019 6A

LANDSLIDES
Geotechnical Management of Forest Lands in Granitic Terrane,
W77-00800 1002 4C

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

LANDUSE
The Utility of Computers in Landscape Planning, the Selection and Application of a Computer Mapping and Assessment System for the Metropolitan Landscape Model (METLAND),
W77-09151 1019 6A

LANGEVIN EQUATION
A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

LANGRIVIER
Results of the Multiple Catchment Experiments at the Jonkershoek Research Station, South Africa. 2. Influence of Protection of Fynbos on Stream Discharge in Langrivier,
W77-01474 1003 4D

LAPLACES EQUATION
Prediction of Mound Geometry Under Recharge Basins,
W77-02144 1005 2F

LARCH SPECIES
Drought Resistance of Larch Species Introduced to the Central Forest-Steppe Region, (In Russian),
W77-05098 1010 4A

LARGE WATERSHEDS
Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

LARGE WATRESHEDS
The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

LARSEN ICE SHELF
Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

LARSON LAKE (WIS)
Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

LARUS SPP.
Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

LARVAE
Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Development of the Respiratory System in Herring and Plaice Larvae,
W77-04548 1009 2I

The Drift and its Ecological Significance: Experimental Investigation on Ecdyonurus Venosus (Fabr.) in a Stream Model, (In German),
W77-04865 1010 5B

Prelimnary Assessment of Larval Fish Entrainment, Colbert Steam Plant, Tennessee River,
W77-05596 1011 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

Significance of Egg and Larval Surveys in the Studies of Population Dynamics of Fish,
W77-05833 1012 2L

The Distribution and Long Term Changes in Abundance of Larval Ammodytes Marinus (Raitt) in the North Sea,
W77-05835 1012 2L

On the Reliability of Methods for Quantitative Surveys of Fish Larvae,
W77-05837 1012 7B

Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Vertical and Seasonal Variability of Fish Eggs and Larvae at Ocean Weather Station 'India',
W77-05840 1012 2L

The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

Food and Feeding of Larval Redfish in the Gulf of Maine,
W77-05844 1012 2L

Food of the Larval Anchoveta Engraulis Ringens J.,
W77-05845 1012 2L

Laboratory Studies of Predation by Euphausiid Shrimps on Fish Larvae,
W77-05846 1012 2L

Chemical Changes During Growth and Starvation of Herring Larvae,
W77-05847 1012 5C

Feeding, Starvation and Weight Changes of Early Fish Larvae,
W77-05849 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

LARVAL
Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

LARVAL GROWTH STAGE
Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Lar-

val Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Deleterious Effects of Corexit 9527 on Fertilization and Development,
W77-04050 1008 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

The Role of Larval Stages in Systematic Investigations of Marine Teleosts: The Myctophidae, A Case Study,
W77-04538 1009 2I

Larval Mortality in Marine Fishes and the Critical Period Concept,
W77-05822 1012 2L

Larval Mortality and Subsequent Year-Class Strength in the Plaice (Pleuronectes Platessa L.),
W77-05823 1012 2L

Some Observations on the Population Dynamics of the Larval Stage in the Common Gadoids,
W77-05828 1012 2L

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

Egg Incubation and Larval Rearing of Navaga (Eleginus Navaga Pall.), Polar Cod (Boreogadus Saida Lepechin) and Arctic Flounder (Liopsetta Glacialis Pall.) in the Laboratory,
W77-06792 1014 8I

The Effect of Salinity and Cyclic Temperature on Larval Development of the Mud-Crab Rhithropanopeus Harrisii (Brachyura: Xanthidae) Reared in the Laboratory,
W77-07384 1015 5C

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Acute Temperature and Low Dissolved Oxygen Tolerances of Brachyuran Crab (Cancer Irroratus) Larvae,
W77-11332 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Power Plants and Plankton,
W77-12039 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

LARVAL GROWTH STAGES
Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

LARVAL LAMPRICIDE
The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

LARVICIDE
Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

LARVICIDES
Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

LAS CRUCES ARROYO (NM)
Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

LAS VEGAS (NEV)
Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

LAS VEGAS VALLEY (NEV)
Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

Nitrogen Contamination Sources in Shallow Ground Water, Las Vegas Area, Nevada,
W77-07141 1015 5B

LASER METHODS
Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

LASER RAMAN SPECTROMETRY
Investigation of Detection Limits for Solutes in Water Measured by Laser Raman Spectrometry,
W77-08171 1017 2K

LASER RAMAN SPECTROSCOPY
Remote Detection of Water Pollutants by Computerized Laser-Raman Spectroscopy,
W77-00154 1001 5A

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

Petroleum Identification by Laser Raman Spectroscopy,
W77-04843 1010 5A

LASER TECHNIQUES
Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

LATENT MORTALITY
Survival and Reproduction of Gammarus spp. (Amphipoda) Following Short-Term Exposure to Elevated Temperatures,
W77-07125 1015 5C

LATERAL FLOW
Laterally Confined, Steady Flows of Water from Sources and to Sinks in Unsaturated Soils,
W77-10311 1021 2G

Contribution of Lateral Soil Water Movement Above a Fragipan to Streamflow,
W77-10312 1021 2G

LATERAL INFLOW
Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

LATERAL LINE FUNCTION
Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

LATERAL LINE MORPHOLOGY
Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

LATERAL MIXING
Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

LATEX WASTE WATER
Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

LATITUDINAL STUDIES
Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

LATRINE CONSTRUCTION
Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

LAUNDERING
Laundering and Dry-Cleaning,
W77-02005 1004 5D

Waste Segregation as a Means of Enhancing Onsite Wastewater Management,
W77-12430 1024 5D

LAURENTIAN CHANNEL
Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

LAVER
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

LAW
The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

LAW ENFORCEMENT
The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

Environmental Poisons.
W77-01547 1003 5C

Freedom of Beach,
W77-03584 1007 6E

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

Waters; Penalties, Violations,
W77-06078 1012 6E

Enforcement of Oil Pollution Legislation,
W77-06543 1013 5G

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

Prohibition Against Pollution.
W77-12908 1024 6E

LAW OF THE SEA
Management of the Ocean's Living Resources: An Essay Review,
W77-00179 1001 6E

Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

The International Law of the Sea: A Case for a Customary Approach,
W77-00956 1002 6E

Protection of the Marine Environment from Pollution,
W77-00973 1002 5G

The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

Offshore Boundaries: Engineering and Economic Aspects,
W77-01077 1003 6E

Commission on the Conference of the Law of the Sea.
W77-01104 1003 6E

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

LOS III: Prospects and Problems,
W77-04353 1009 6E

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

A View of Caracas,
W77-05032 1010 6E

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

The New Equity in the Law of the Sea,
W77-05219 1011 6E

Post Caracas: Striking a Bargain for Settlement at Geneva,
W77-06054 1012 6E

Pollution--No Private Compensation for Invasion of Public Rights Absent Particular Damages, Burgess V the Tamano, 1973 A.M.C. 1939 (D ME 1973),
W77-06546 1013 5G

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

Conference on Law of Sea Will Seek to Reach Accord on Host of Complex Issues.
W77-10449 1021 6E

Law At Sea,
W77-11175 1022 6E

Deep Seabed Hard Minerals Act (To Provide the Secretary of the Interior with Authority to Promote the Conservation and Orderly Development of Deep Seabed Hard Mineral Resources Pending Adoption of an International Regime).
W77-11450 1022 6E

International Law, World Order and Human Progress,
W77-11474 1022 6E

LAW OF THE SEA CONFERENCE
The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

Conference on Law of Sea Will Seek to Reach Accord on Host of Complex Issues.
W77-10449 1021 6E

LAW OF THE SEA (LOS)
Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

LAW OF THE SEA (LOS) CONFERENCE
Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Con-

servation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

LAW OF THE SEAS CONFERENCE
A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

LAWRACEAE
The Broadleaf Evergreen Forests of Japan, (In German),
W77-00499 1001 4A

LAWRENCE LAKE (MICH)
Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

LAYERED AQUIFER CHARACTERISTICS
Utilizing a Digital Model to Determine the Hydraulic Properties of a Layered Aquifer,
W77-06333 1013 2F

LAYERED SOILS
Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

LC50
The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

LEACHATE
The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

Gas and Leachate from Landfills: Formation, Collection, and Treatment. Proceedings of a Research Symposium.
W77-02394 1005 5E

Introduction to Symposium on Gas and Leachate from Landfills: Formation, Collection, and Treatment,
W77-02395 1005 5E

Current Office of Solid Waste Management Programs - Landfill Activities,
W77-02397 1005 5E

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Leachate Attenuation in Undisturbed and Remoulded Soils,
W77-02403 1005 5B

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Attenuation Mechanisms of Pollutants Through Soils,
W77-02408 1005 5B

Assessing Synthetic and Admixed Materials for Lining Landfills,
W77-02410 1005 5E

Landfill Management with Leachate Recycle and Treatment: An Overview,
W77-02411 1005 5D

Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

System Prevents Leachate Formation.
W77-04136 1009 5G

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Organic Leachate Threatens Groundwater Quality,
W77-04870 1010 5B

Treatment of Leachates from Sanitary Landfills,
W77-05331 1011 5D

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

Leachate Plumes in a Highly Permeable Aquifer,
W77-06331 1013 5B

Biological Treatment Kinetics of Landfill Leachate,
W77-08532 1017 5D

The Sanitary Landfill Leachate Control Plant in Kobe.
W77-08534 1017 5D

The Design of a System for Collecting Leachate from a Lined Landfill Site,
W77-08827 1018 5G

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

Effects of Anaerobically Digested Sewage Sludge on Organic Matter in Soil and Soil Water,
W77-09598 1019 5C

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-09917 1020 5B

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

Migration of Landfill Leachate Through Glacial Tills,
W77-10968 1022 5B

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

LEACHATE MIGRATION
Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

LEACHATES
Generation of Leachate from Landfills and Its Subsurface Movement,
W77-04134 1009 5B

Characterization of Soluble Organic Matter in Leachate,
W77-07039 1014 5A

LEACHING
Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Short Term Nitrate Losses and Associated Microbial Populations in Soil Columns,
W77-00309 1001 2G

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

Amelioration of Subsurface Acidity by Leaching of Surface Applied Amendments. A Laboratory Study,
W77-01483 1003 2G

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

Fixation of Iron and Zinc Applied as Chelates into a Soil Column During Leaching,
W77-02280 1005 2G

Minimal Leaching with Varying Root Depths of Alfalfa,
W77-03066 1006 3C

Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

LEACHING

On the Counterplan for Treatment of Foul Water Which Oozed Out from A Dumping Ground, (In Japanese),
W77-04066 1008 5D

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

Leaching of a Highly Saline-Sodic Soil,
W77-05788 1012 2G

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

Interactions of Cupric Ion with Humic Acid,
W77-07104 1015 5B

Atmospheric Sulfate Additions and Cation Leaching in a Douglas Fir Ecosystem,
W77-08822 1018 2K

Influence of Crop Management Practices on Nutrient Movement Below the Root Zone in Nebraska Soils,
W77-09279 1019 2G

Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

Heterovalent Cation Exchange Equilibria in Soils With Variable and Heterogeneous Charge,
W77-09440 1019 2G

Simplified Long Term Concept for Evaluating Leaching of Nitrogen from Agricultural Land,
W77-09446 1019 5B

Effect of Leaching Fraction on River Salinity,
W77-09697 1020 5G

Ammonium Diffusion as a Factor in Nitrogen Loss from Flooded Soils,
W77-09966 1020 5B

Relation Between the Kinetics of Nitrogen Transformation and Biomass Distribution in a Soil Column During Continuous Leaching,
W77-09973 1020 2G

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

Transport of Nitrate Ion in Unsteady, Unsaturated Flow in Porous Media,
W77-10595 1021 2G

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Modeling Nitrate Movement and Dissipation in Fertilized Soils,
W77-10975 1022 5B

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Drip Irrigation with Saline Water and the Leaching of Soil by Means of Drip Irrigation,
W77-11062 1022 3C

Effects of Irrigation Management on the Quality of Irrigation Return Flow in Ashley Valley, Utah,
W77-11079 1022 5B

Influence of Soil Properties, Leaching Fraction, and Plant Water Uptake on Solute Concentration Distribution,
W77-11222 1022 2G

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

Irrigation Control Using Tensiometers and Salinity Sensors,
W77-11404 1022 3F

Test Leaching of Solonchaks in the River Lena Valley (USSR), (In Russian),
W77-11413 1022 3C

A Study of Salt Leaching by Ponding and Sprinkling in Unsaturated Soil Columns,
W77-11444 1022 3C

A Method for the Simultaneous Control of the Water Regime and Gaseous Atmosphere in Soil Columns,
W77-11614 1023 2G

Advantages of Using High Salt-Sodium Waters in the Reclamation of Gypsified Heavy-Textured Soil,
W77-11994 1023 2G

Leaching of Phosphate and Selected Cations from Sandy Soils as Affected by Lime,
W77-12172 1023 5B

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

Modification of a Calcareous Sodic Soil as Affected by Leaching with Saline Water,
W77-12277 1024 3C

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

Chemical Reclamation of Solonetz-Solochaks in the Ararat Plain and the Possibility of Utilizing Saline Waters for Leaching and Irrigation,
W77-12743 1024 3C

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

LEACHING CHARACTERISTICS

Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

LEACHING LOSSES

Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

LEAD

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Effects of Cadmium and Lead upon the Indigenous Heterotrophic Microflora in the Aqueous Environment of the Brackish Estuary-Water of the River Weser, (In German),
W77-01566 1004 5C

Practical Use of Polarograph Models PPT-1 and OP-5122, (In Russian),
W77-01588 1004 5A

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Maximum Allowable Concentration of Lead in Surface Waters, (In Russian),
W77-02262 1005 5C

The Effect of Sub-Lethal Lead Concentrations on the Chemoreceptors of Two Fresh Water Fish Species, (In German),
W77-02383 1005 5C

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Lead Transport in a River Ecosystem,
W77-03672 1008 5B

Distribution of Heavy Metals in Tissues of the Common Seal,
W77-04059 1008 5C

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

The Chemistry of Lead and Cadmium in Soil: Solid Phase Formation,
W77-05202 1011 5B

Ultrastructural Localization of Lead in Stigeoclonium Tenue (Chlorophycea, Ulotrichales) as Demonstrated by Cytochemical and X-ray Microanalysis,
W77-05230 1011 5C

The Highway as a Source of Water Pollution: An Appraisal with the Heavy Metal Lead,
W77-05452 1011 5B

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Analysis of Lead in Polluted Coastal Seawater,
W77-06159 1013 5A

Removal of Lead in Water Treatment (Badania nad usuwaniem olowiu z wod),
W77-06190 1013 5D

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

Long-Term Lead Accumulation in Abalone (Haliotis Spp.) Fed on Lead-Treated Brown Algae (Egregia Laevigata),
W77-06776 1014 5C

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Mussels (Mytilus Sp.) as an Indicator of Lead Pollution,
W77-08693 1018 5C

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Environmental Contaminants Inventory Study No. 3, the Production, Use and Distribution of Lead in Canada,
W77-09221 1019 5B

Lead Effects on Several Enzymes and Nitrogenous Compounds in Soybean Leaf,
W77-09280 1019 5C

The Influence of Applied Phosphorus, Manure, or Lime on Uptake of Lead from Soil,
W77-09435 1019 5B

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of

Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

Effect of Tetramethyl Lead on Freshwater Green Algae,
W77-11522 1023 5C

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

Method of Reducing Lead and Acid Waste Contamination in Battery Plant Operation,
W77-12922 1024 5D

LEAD ACETATE

The Effect of Sub-Lethal Lead Concentrations on the Chemoreceptors of Two Fresh Water Fish Species, (In German),
W77-02383 1005 5C

LEAD COMPLEXES

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

LEAD DISTRIBUTION

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

LEAD INTOXICATION

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

LEAD MINING INDUSTRY

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

LEAD NITRATE

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

LEAD POISONING

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

LEAD POLLUTION

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

LEAD SMELTING

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

LEAD TOXICOSIS

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

LEAF AREA MEASUREMENT

Evaluation of an Electronic Foliometer to Measure Leaf Area in Corn and Soybeans,
W77-12118 1023 7B

LEAF CONDUCTANCE

Leaf Conductance Response to Humidity and Water Transport in Plants,
W77-11943 1023 3F

LEAF MESOPHYLL

Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

LEAF PHOTOSYNTHESIS

Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

LEAF RESISTANCE

Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

LEAF SAMPLES

New Technique for Measuring the Water Potential of Detached Leaf Samples,
W77-12117 1023 7B

LEAF SPOTS

Mycoleptodiscus Terrestris Leaf Spot on Waterhyacinth,
W77-02543 1005 5G

LEAF WATER

On the Role of Leaf Water in Regulating Metabolism,
W77-11070 1022 2I

LEAF WATER CONTENT

Estimating Relative Leaf Water Content with a Simple Beta Gauge Calibration,
W77-03635 1008 7B

LEAF WATER POTENTIAL

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Water Stress Induced Alterations of the Stomatal Response to Decreases in Leaf Water Potential,
W77-03140 1007 2I

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

Performance of the Silver-Psychrometer for Measuring Leaf Water Potential in Situ,
W77-11388 1022 2I

Stomatal Response to Leaf Water Potential as Affected by Preconditioning Water Stress in the Field,
W77-11959 1023 3F

LEAF WATER POTENTIALS

Effect of Dew on Leaf Water Potentials and Crop Resistances in a Paspalum Pasture,
W77-03736 1008 3F

LEAKAGE

Flow Data Collection for Infiltration-Inflow Analysis,
W77-02334 1005 5D

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Testing and Grouting Leaking Joints,
W77-06986 1014 8G

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Sealing Material for Preventing Water-Leakage and Method of Manufacturing Same,
W77-11015 1022 8G

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

LEAKAGE FACTOR

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

LEAKY ACRES RECHARGE FACILITY (CALIF)

Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

LEAKY AQUIFER FUNCTION

Calculation of the Leaky Aquifer Function,
W77-07156 1015 2F

LEAKY AQUIFERS

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

LEASES

Legal Considerations Concerning Oyster Cultivation in Florida,
W77-01092 1003 6E

Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Leases of Lakes, Ponds, Streams and Reservoirs.
W77-01116 1003 6E

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

The Present and Future of Coasts.
W77-04462 1009 2L

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Water-Use Leasing Act.
W77-09010 1018 6E

LEAST SQUARES METHOD
The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow 1. Theory and Numerical Properties,
W77-10008 1020 2F

Determination of Instantaneous Unit Hydrographs By Least Squares Polynomials,
W77-12086 1023 2E

LEATHER
Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

LEAVES
Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

Leaf Water Potential and Stomatal Activity in Sorghum as Influenced by Soil Moisture Stress,
W77-01276 1003 2I

Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-II. Simulated Effect of Variations in Environmental Conditions, Leaf Properties, and Surface Water Characteristics,
W77-03758 1008 2D

The Decomposition of Leaves in Two Southern California Streams,
W77-03829 1008 5B

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Drought Effect on the Optical Properties of Winter Wheat Leaves, (In Ukranian),
W77-04916 1010 2I

Elements in Leaves of a Trembling Aspen Clone by Crown Position and Season,
W77-06441 1013 2I

Species Differences in Breakdown of Tree Leaves in Streams--Significance for Composition of Stream Communities,
W77-09056 1018 5B

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

Leaf Conductance Response to Humidity and Water Transport in Plants,
W77-11943 1023 3F

Field Studies of the Conductance of Wheat Leaves and Transpiration,
W77-12175 1023 3F

Effect of Leaf Shape on Response of Cotton to Plant Population, N Rate, and Irrigation,
W77-12534 1024 3F

LEBANON
Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

LEBISTES-RETICULATUS
Toxicological Effects of Diethylnitrosamine (DENA) in Guppies (Lebistes Reticulatus), (In German),
W77-04100 1008 5C

The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-06275 1013 5C

Studies on the Guppy, Lebistes-Reticulatus Peters in Yoshikawa River, Chiba City, (In Japanese),
W77-11857 1023 5C

LEE COUNTY (FLA)
Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

LEECHES
Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

LEGAL ANALYSIS
The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

LEGAL ASPECTS
A Sludge Policy for the 70's,
W77-00026 1001 5E

Lake Washington Ship Canal,
W77-01001 1002 6E

Drainage Districts; Powers.
W77-01006 1002 6E

Flood Control by State in Cooperation With Federal Agencies.
W77-01007 1002 6E

Diking Districts; Powers.
W77-01008 1002 6E

The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

Legal Problems Associated with the Role of Planning in Water Resources Management,
W77-01185 1003 6E

Proceedings of Conference on Farm Animal Wastes: 'Farmer Experiences, Codes, Guidelines, Research Progress, Equipment'.
W77-01521 1003 5G

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

Inland Water Pollution.
W77-01697 1004 5G

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

1974 - A Year of Transition,
W77-02840 1006 5G

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

Water Rights,
W77-03599 1007 6E

Kravec V State (Interior Land Owners' Right to Bridge State's Drainage Ditch Easement).
W77-03718 1008 6E

The National Flood Insurance Program: Explanation and Legal Implications,
W77-03956 1008 6F

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

The Present and Future of Coasts.
W77-04462 1009 2L

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

Legal/Political Aspects,
W77-05382 1011 6E

Florida Water Resources Law, A Bibliography,
W77-05670 1012 6E

Pollution--No Private Compensation for Invasion of Public Rights Absent Particular Damages, Burgess V the Tamano, 1973 A.M.C. 1939 (D ME 1973),
W77-06546 1013 5G

The Navigability Concept in the Civil and Common Law: Historical Development, Current Importance, and Some Doctrines That Don't Hold Water,
W77-06553 1013 6E

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

American Sedimentation Law and Physical Processes,
W77-08130 1017 6E

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Wells, Pumping Plants, Conduits and Streams,
W77-08154 1017 6E

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Report on Water Resources Problems of Western Collier County, Florida as Affected by the GAC Corporation's Canal System in Its Golden Gate Development Project,
W77-08380 1017 6E

Water Districts and Commissioners.
W77-08406 1017 6E

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

Law At Sea,
W77-11175 1022 6E

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

Report on State Sediment Control Institutes Program.
W77-12565 1024 5G

LEGAL CONSTRAINTS

Impact of Legal Constraints on Ground-Water Resource Development in Idaho,
W77-10173 1021 6E

LEGAL FRAMEWORK

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

LEGAL REVIEW

Gowing V MC Candless (Crop Damage Resulting from Flooding of Obstructed Watercourse).
W77-00999 1002 6E

Substantive Rights Under the National Environmental Policy Act,
W77-02067 1004 6E

State Dept of Pollution Control V International Paper Co. (Determination of Fish Value That were Killed by Pollutants).
W77-03498 1007 6E

Village of Lombard V State Pollution Control Board (Pollution Control Board Without Authority to Impose Regionalization Upon Local Governmental Bodies).
W77-03511 1007 6E

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

Brizendine V Nampa Meridian Irrigation District (Duty to Maintain Canal),
W77-06077 1012 6E

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

Save Our Invaluable Land, Inc v Needham (Applicability of FWPCA Amendments to Projects Already Funded).
W77-11199 1022 6E

LEGISLATION

Economic Impacts of State Environmental Programs in a National Framework: The Iowa Conservancy Law,
W77-00303 1001 6G

The View of the Paper Industry on the Occurrence of PCB's in the Environment and the Need for Regulation,
W77-00461 1001 5B

Statement Relating to Polychlorinated Biphenyls on Behalf of the Wisconsin Paper Council,
W77-00462 1001 5B

Iowa's Experience with a Mandatory Sediment Control Law,
W77-00477 1001 6E

Regulations: Reactions and Resolution,
W77-00615 1002 5G

Why Industrial Wastewater Pretreatment,
W77-00763 1002 5D

1974 Annual Report, (Washington Natural Resources and Recreation Agencies).
W77-00957 1002 5G

Floodplain Management: The Iowa Experience,
W77-00962 1002 6F

Obstructing Bridges or Streams.
W77-00989 1002 6E

Protection of Public Water Supply.
W77-00991 1002 6E

1971 Water Resources Act.
W77-01002 1002 6E

Shoreland Boundaries.
W77-01004 1002 6E

Tidelands Act; Powers and Regulations.
W77-01005 1002 6E

Drainage Districts; Powers.
W77-01006 1002 6E

Navigable Waters Protection Law.
W77-01009 1002 6E

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

Commission on the Conference of the Law of the Sea.
W77-01104 1003 6E

County and Municipal Pollution Control Facilities.
W77-01108 1003 6E

Water Rights Registration.
W77-01109 1003 6E

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

Water Pollution Prohibited.
W77-01121 1003 6E

Pollution of Navigable Waters.
W77-01122 1003 6E

History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
W77-01485 1003 4A

The Illinois Coastal Zone Management Program. First Year Work Product: Volume I; The Legal Framework: Lake Michigan and its Shore,
W77-01689 1004 6E

Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

Ocean Dumping Phase-Out in EPA Region II,
W77-02393 1005 5E

Minnesota Water Resources Board and Watershed Districts.
W77-02428 1005 6E

1974 - A Year of Transition,
W77-02840 1006 5G

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Water Rights and Liens.
W77-03499 1007 6E

1971 Shoreline Management Act.
W77-03514 1007 6E

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

The Cost of Coastal Zoning.
W77-03535 1007 6E

The Muddy Road to Clean Water,
W77-03587 1007 5G

Water Rights,
W77-03599 1007 6E

Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

The National Flood Insurance Program: Explanation and Legal Implications,
W77-03956 1008 6F

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Environmental Protection Agency: Petroleum Refining Point Source Category.
W77-04376 1009 5G

Appropriation and Use of Water (Permits and Licenses; Construction of Works).
W77-04380 1009 6E

Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

Enforcement Under the Illinois Pollution Law,
W77-04567 1009 5G

Residual Waste: Model State Legislation,
W77-04905 1010 5G

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

Effluent Guidelines and Standards: Plastics and Synthetics Manufacturing Point Source Category,
W77-04928 1010 5G

Model Water Pollution Statute,
W77-05042 1010 5G

Coastal Zone Management and Intergovernmental Coordination,
W77-05059 1010 6E

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

Coastal Zone Management (Goals and Guidelines),
W77-05069 1010 6E

Canal Commission Law.
W77-05072 1010 6E

The Conservancy Act of New Mexico (Creation and Powers of Conservancy Districts),
W77-05076 1010 6E

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Regulations and Waste Characterization,
W77-05709 1012 5G

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

Drainage Districts with Counties or Cities (Powers).
W77-06060 1012 6E

Sand and Gravel (Taking Materials from Rivers and Islands Belonging to the State).
W77-06082 1012 6E

The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

How Much Pollution Control for What Price,
W77-06179 1013 5G

Control and Treatment of Waste Water,
W77-06185 1013 5G

History of the Phosphate Detergent Ban in Indiana,
W77-06378 1013 5G

Water Pollution from Industrial Sources in Sweden and Recent Trends to Prevent It,
W77-06383 1013 5G

Tributary Ground Water and Change-of-Place-of-Use Rules in Designated Ground Water Basins in Colorado.
W77-06545 1013 4B

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

Shoreline Setbacks,
W77-06570 1013 6E

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

The Evolution of Approaches to Flood Damage Reduction,
W77-07248 1015 6F

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Financing: There Must be a Better Way,
W77-07873 1016 5G

Appraisal of Areawide Waste Water Planning,
W77-07874 1016 5G

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

As an Incident of National Sovereignty, the United States Has Paramount Rights and Power in the Seabed and Subsoil of the Outer Continental Shelf,
W77-08974 1018 6E

Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

Energy Plant Siting Legislation,
W77-09050 1018 6E

Policy Innovation and Institutional Fragmentation,
W77-09053 1018 6E

LEGISLATION

Water Quality Modeling in Texas,
W77-09181 1019 5B

Wetlands-Related Legislation in the United States,
W77-09324 1019 6E

Coastal Zones.
W77-09566 1019 6E

Cross Canada Report,
W77-09923 1020 5G

Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
W77-10357 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
W77-10358 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Japan.
W77-10360 1021 6E

Variations in Effluent Quality and the Implications for Setting Effluent Standards,
W77-10371 1021 5G

Florida's Land Use Restrictions: Are They Serving the Public Interest,
W77-10465 1021 6E

Federal and Florida Law Concerning Oil Pollution,
W77-10467 1021 6E

Plastics and Synthetics Manufacturing Point Source Category, Effluent Limitations and Guidelines.
W77-10474 1021 5G

Ground Water Act of 1955 (Regulation of Underground Waters Thru a Permit System).
W77-10495 1021 6E

Artesian Wells.
W77-10500 1021 6E

Releasing Dead Animals, Etc., Into or Near Waters.
W77-10501 1021 6E

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Environmental Considerations of the Oil and Gas Production Industry in the Coastal Zone,
W77-11032 1022 5G

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Environmental Impact Analysis: The Central Arizona Project as an Example,
W77-11082 1022 6G

Every Pond and Puddle--Or, How Far Can the Army Corps Stretch the Intent of Congress,
W77-11165 1022 6E

Tijuana River Flood Control Project,
W77-11167 1022 6E

Florida Environmental Permitting and Wetlands Protection Act (Proposed Legislation).
W77-11177 1022 6E

Water Control Districts.
W77-11198 1022 6E

Agricultural Legislation's Potential in Reducing Discharge of Pollutants,
W77-11395 1022 5G

Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

EPA Sets Rules on 'Ineligible' Sewers.
W77-12460 1024 5G

Report on State Sediment Control Institutes Program.
W77-12565 1024 5G

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

LEGOMES

Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

LEGUMES

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

Late Summer Irrigation and Establishment of Winter Annual Legumes in a Mediterranean-Type Climate,
W77-12532 1024 3F

LEMNA-MINOR

Rapid Detection of Various Kinds of Herbicides in Water by the in Vivo Determination of Nitrate Reductase Activity in Lemna Minor, (In French),
W77-04261 1009 5C

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

LENDING REGULATIONS

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

LENINGRAD (USSR)

Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

LENT SQUARES METHOD

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

LENTIC ENVIRONMENT

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

LEOPARD FROG

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

LEPIDURUS ARCTICUS

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

LEPOMIS

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

LEPOMIS CYANELLUS

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

LEPOMIS SP

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

LEPOMIS SSP

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

LEPTODORA-KINDTII

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of

the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

LEPTOSPIRA POMONA
Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

LEPTOSPIRES
Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

LESIONS
The Gas Disease in Fishes,
W77-05481 1011 5C

LESSER ALMATINKA RIVER (USSR)
Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

LETHAL CONCENTRATION
Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

LETHAL DECOMPRESSION
The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

LETHAL LIMIT
Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Hygienic Standardization of Octylic Stabilizers of Polyvinylchloride in Water Bodies, (In Russian),
W77-02264 1005 5G

Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

Progress in Sublethal Effect Studies with Kraft Pulp Mill Effluent and Salmonids,
W77-02573 1005 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Study About the Toxic Action of Zinc on One Summer Old Carp: I. Lethal Concentrations, (In Bulgarian),
W77-02896 1006 5C

Experimental Substantiation of the Maximum Allowable Concentration of Dimide in Water Bodies, (In Russian),
W77-02907 1006 5C

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Hygienic Substantiation of the Maximum Permissible Concentration of Tin Tributylmethacrylate in Water Bodies, (In Russian),
W77-03107 1007 5A

Permissible Level of Benzo(A)Plyrene in Water Bodies, (In Russian),
W77-03117 1007 5B

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Experimental Substantiation of the Maximal Permissible Concentrations of Triethanolamine, Ammonium and Calcium Salts of Alkylbenzosulfates in Water Bodies, (In Russian),
W77-03586 1007 5B

Effects of Oil on the Amphipod Gammarus Oceanicus,
W77-03777 1008 5C

Aquatic Organisms Response to Severe Stress Following Acutely Sublethal Toxicant Exposure,
W77-04024 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

Study on the Long-Term Effects of Some Detergents on the Sequence of Development of the Sedentary Polychaete, Capitella Capitata (Fabricius), (In French),
W77-04067 1008 5C

Toxicological Effects of Diethylnitrosamine (DENA) in Guppies (Lebistes Reticulatus), (In German),
W77-04100 1008 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Data to Substantiate the Permissible Concentration of Fenuron in Water Bodies, (In Russian),
W77-04407 1009 5A

Biological Action of Nitrates in Drinking Water, (In Russian),
W77-04560 1009 5A

Data on Substantiation of the Maximum Allowable Concentration of Yalan in Water Bodies, (In Russian),
W77-04599 1009 5C

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Data for Substantiating the Permissible Level of Boron Content in Drinking Water, (In Russian),
W77-05898 1012 5C

Experimental Verification of the Maximum Permissible Concentration on Methyl and Butyl Esters of Methacrylic Acid in Water Bodies, (In Russian),
W77-06299 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Hygienic Standardization of Disodium Salts of Meta-and Para-Diisopropylbenzene in Water Bodies, (In Russian),
W77-07590 1015 5C

Experimental Data for the Hygienic Standardization of Diphenylamine and Diphenyldiethylurea in Water Bodies, (In Russian),
W77-07700 1016 5G

Some Experimental Data on the Study of the Biological Action of Ethylbutylamine as a Water Pollution Factor, (In Russian),
W77-08439 1017 5A

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Acute Temperature and Low Dissolved Oxygen Tolerances of Brachyuran Crab (Cancer Irroratus) Larvae,
W77-11332 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

An Express Method for Establishing Minimum Permissible Concentrations for Waters Used for Commercial Fishing, (In Russian),
W77-12979 1024 5A

LETHAL LIMITS

Effects of Increased Water Temperature on Daphnia Pulex,
W77-07130 1015 5C

LETHAL STIMULI

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

LETHAL TEMPERATURE

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

LETTUCE

Water Relations of Lettuce: I. Internal Physical Aspects for Two Cultivars,
W77-12844 1024 2I

LEUKOCYTOSIS

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

LEVANTINE SEA

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

LEVEE DISTRICTS

Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

LEVEES

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Plan for Improvement of the Delta Levees.
W77-03550 1007 4A

Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

Drainage Districts with Counties or Cities (Powers).
W77-06060 1012 6E

Determination of the Degree of Protection Offered by Flood Control Systems on the Basis of Distribution Functions,
W77-07673 1016 8B

Wood V. Board of Commissioners for the Pontchartrain Levee District (Land Appropriation for Levees),
W77-08144 1017 6E

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume IX. Sheet Pile Walls and T-Walls,
W77-10136 1021 8B

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Louisiana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

An Analysis of Flood Levee Reliability,
W77-11224 1022 4A

LEWISTON AREA (IDAHO)

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

LEXINGTON AREA (KY)

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

LIABILITY

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

The Application of Surface Water Rules in Urban Areas,
W77-10459 1021 6E

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

LIBBY DAM (MONT)

Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

LIBERTY LAKE BASIN (WASH)

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

LIBERTY LAKE (WASH)

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

LIBYA

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

LIBYAN DESERT

Progress in the Exploration and in the Scientific Research of the Libyan Desert Since Gerhard Rohlfs,
W77-01269 1003 4A

LICENSES

Navigation Law, Section 89-b.
W77-01013 1002 6E

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

McNamara V. Westview Building Corporation (Land Owner's Rights Against Drainage from Abutting Property).
W77-06080 1012 6E

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Appropriation of Water.
W77-08405 1017 6E

LICENSES (POLLUTION)

Effluent Charges and Licenses Under Uncertainty,
W77-03959 1008 5G

LICHENS

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

LICHNENS

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

LIDAR

The Polarization Characteristics of Lidar Scattering from Snow and Ice Crystals in the Atmosphere,
W77-06512 1013 2C

LIENS

Water Rights and Liens.
W77-03499 1007 6E

LIFE CYCLES

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Population Ecology and Production of Benthic Detritivores,
W77-07979 1016 5C

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

LIFE HISTORY CYCLES

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

LIFE HISTORY STUDIES

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

The Early Life History of Fish, Volume II.
W77-04524 1009 2I

Morphological Studies of Two Pristigasterinae Larvae From Southern Brazil,
W77-04531 1009 2I

Early Life History of Limanda Yokohamae (Gunther),
W77-04533 1009 2I

The Early Life History of Fish,
W77-05821 1012 5C

A Contribution to the Life History of the Cunner, Tautogolabrus Adspersus, in Fishers Island Sound, Connecticut,
W77-07377 1015 5C

Life History Patterns in the Coastal Shiner, Notropis Petersoni, Fowler,
W77-07386 1015 5C

Aspects of the Life History of Tresus Nuttallii in Elkhorn Slough,
W77-07388 1015 2L

Life History Notes for a Population of Slimy Sculpin (Cottus Cognatus) in an Alaskan Arctic Stream,
W77-07393 1015 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

LIFE SPAN
Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

LIFE STAGES
Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

LIFT FORCE
Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

LIFT STATIONS (SEWAGE)
Analysis of Economic Sewage Lift Station Design,
W77-09906 1020 8C

LIGAND EXCHANGE
Ammonia Removal from Wastewater by Ligand Exchange,
W77-03367 1007 5D

LIGHT
Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

Recent Progress on the Control of Ovarian Development and Induced Spawning of the Grey Mullet (Mugil Cephalus L.),
W77-02882 1006 5C

Regulation of Oxygen Consumption by Incident Illumination in Embryonated Ova of Atlantic Salmon Salmo Salar L.,
W77-03051 1006 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

Influence of Light and Temperature on the Photosynthetic Rate of Marine Benthic Diatoms,
W77-07385 1015 5C

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Disinfection of Waste Water by Photodynamic Oxidation,
W77-09852 1020 5D

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Physiological Studies of Subtidal Red Algae,
W77-10757 1021 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Changes in the Vertical Distribution of the Planktonic Crustacea in Lake Tazenat and Lake Pavin (Massif Central, France) During the Year, (In French),
W77-12468 1024 2H

Relationships Between Photosynthetic Production and Light Penetration in Waters of Lake Berre, (In French),
W77-12990 1024 2H

LIGHT EXTINCTION
Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

LIGHT FIELDS
Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

LIGHT INTENSITY
Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

LIGHT MICROSCOPY
An Investigation of the Particulate Phase of Acid Precipitation,
W77-10178 1021 2B

LIGHT PENETRATION
Yellow Substance (Gelbstoff) and its Contribution to the Attenuation of Photosynthetically Active Radiation in some Inland and Coastal South-Eastern Australian Waters,
W77-00448 1001 5C

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Measurement of 'Turbidity' and Related Characteristics of Natural Waters,
W77-03339 1007 7B

Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

Some Effects on Integral Photosynthesis of Artificial Circulation of Phytoplankton Through Light Gradients,
W77-06696 1014 5C

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

Hydrooptical and Hydrobiological Investigations of the Central Parts of the Reservoir of the Krasnoyarsk Hydroelectric Station, (In Russian),
W77-09136 1019 5C

Primary Production Studies in Porto Novo Waters, S. India,
W77-10140 1021 5C

LIGHT-STIMULATED RESPIRATION
A Field and Laboratory Study of Oxygen Uptake by Planktonic Blue-Green Algae,
W77-10154 1021 5C

LIGHTNIN TREATMENT SYSTEM
High Capacity Waste Water Treatment System,
W77-08566 1017 5D

LIGNINS
Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Use of Chlorine Dioxide-Alkali for High-Yield Pulping,
W77-01664 1004 5D

The Effect of Gamma Irradiation on Pulp and Paper Mill Effluents,
W77-02000 1004 5D

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. I. Study of Lignin Decomposition Products (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. I. Issledovanie produktov razrusheniya lignina),
W77-02585 1006 5B

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. II. Physicochemical Properties of Lignin Decomposition Product (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. II. Fiziko-khimicheskaya kharakteristika produkov razrusheniya lignina),
W77-02586 1006 5B

Investigations on the Crosslinking of Spent Sulfite Liquor (Untersuchungen zur Vernetzung technischer Sulfitablauge),
W77-04807 1010 5D

Biological Degradation of Difficult-To-Oxidize Effluent Components (Biologicheskaya

destruktsiya trudnookislyaenykh komponentov stochnykh vod),
W77-05716 1012 5D

Studies on Coagulation Treatment of Spent Water from Pulping Process. (Part 3). Coagulation Mechanism of Lignin (In Japanese),
W77-10761 1021 5D

Pressurized Pipeline Transport of Effluent Sediments (K voprosu perekachki osadkov stochnykh vod po napornym truboprovodam),
W77-12356 1024 5D

LIGNITE
Performance of Lignite and Subbituminous Fly Ash in Concrete - A Progress Report,
W77-02803 1006 8F

Potential Impact of the Development of Lignite Reserves on Water Resources of East Texas,
W77-04297 1009 5B

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

LIGNITE PITS
Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

LIGNOSULFONATES
Investigations on the Crosslinking of Spent Sulfite Liquor (Untersuchungen zur Vernetzung technischer Sulfitablauge),
W77-04807 1010 5D

Fluorescence Tracing of the Flow and Dispersion of Sulfite Wastes in a Fjord System,
W77-12333 1024 5B

LIGNOSULPHONATES
Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

LIMAN SOILS
Trace Elements in Soils of the Dnieper-Bug Liman, (In Ukranian),
W77-02258 1005 2G

LIMANS
Plant Indicators of Hydrochemical Conditions of Limans of the Kalmyk Steppe, (In Russian),
W77-12991 1024 2H

LIMB REGENERATION
DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

LIMB REGENERATION (CRABS)
Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

LIME
Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

Color Removal in a Ferric Chloride-Lime System,
W77-01653 1004 5D

Effect of Lime on Boron Transport to and Uptake by Cotton,
W77-02282 1005 3F

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

Anaerobic Digestion of Lime Sewage Sludge,
W77-02750 1006 5D

Specific Role of Lime in Municipal Waste Water Treatment-Expectations and Reality (Die Spezifische Rolle Des Kalks in Der Kommunalen Abwasserreinigung-Erwartungen Und Realitaeten),
W77-03422 1007 5D

Effluent and Water Treatment: The Economics of Lime Dosing and In-House Waste Treatment.
W77-04699 1010 5D

Aiding of Suspended Solids Removal by Polyelectrolytes (Zastosowanie polielektrolitow do stracania zawiesin w wodach dolowych),
W77-05506 1011 5D

Lime Treatment of Sulfite Pulp Mill Bleachery Effluent (Cisteni odpadnich vod z beleni sulfitove buniciny vapnem),
W77-05693 1012 5D

Effects of Sewage Sludge Composition, Application Rate, and Lime Regime on Plant Availability of Heavy Metals,
W77-06175 1013 5C

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

The Influence of Applied Phosphorus, Manure, or Lime on Uptake of Lead from Soil,
W77-09435 1019 5B

Some Effects of Lime Addition on High Solids, Completely Mixed, Activated Sludge Waste Water Treatment,
W77-09601 1020 5D

Chemical Treatment of Sewage,
W77-09892 1020 5D

One Process Step Can Be Skipped: Biological-Chemical Waste Water Treatment Plant Becoming Cheaper (Et prosesstrinn kan sioyfes: biologisk-kjemiske renseanlegg blir billigere),
W77-10631 1021 5D

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

LIME COAGULATION
Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

LIME-NEUTRALIZED IRON HYDROXIDE SUSPENSIONS
Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

LIME-SULFIDE EFFLUENT
Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

LIMESTONE
Horizon Hydraulic Conductivities Determined In Situ for the Wilderness, Mexico and Menfro Soils and Used to Predict Soil Water Content,
W77-07103 1015 2G

Deep Water Resources of the Limestones of Franche-Comte: Problems of Quantity and Quality, (In French),
W77-08122 1017 4B

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

LIMESTONE BARRIERS
Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

LIMESTONES
Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Deposits Formed by Subglacial Precipitation of CAC03,
W77-00658 1002 2K

Hydrogeology of a Cavernous Limestone Terrane and the Hydrochemical Mechanisms of its Formation, Mohawk River Basin, New York,
W77-02022 1004 2F

Improving the Sanitary Protection of Ground Water in Severely Folded, Fractured, and Creviced Limestone,
W77-04890 1010 5B

Water Resources of the North Coast Limestone Area, Puerto Rico,
W77-06335 1013 4B

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

LIMITED IRRIGATION
Irrigating Soybeans with Limited Water,
W77-02523 1005 3F

LIMITING FACTORS
Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

Limnological Studies in a Large, Deep, Oligotrophic Lake (Lake Ohrid, Yugoslavia). Evaluation of Nutrient Availability and Control of Phytoplankton Production Through In Situ Radiobioassay Procedures,
W77-10141 1021 5C

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

LIMNOCALANUS SPP.
Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

LIMNODRILUS
The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

LIMNOLOGICAL SURVEY
A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

LIMNOLOGY
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

The Limnology of Lagoa Poclela,
W77-01381 1003 2H

Limnological Data Report for the Maine Department of Environmental Protection--U. S. Geological Survey Cooperative Lake Studies Project,
W77-01414 1003 2H

Annotated Bibliography of the Lakes, Ponds, and Reservoirs of New York State Through 1974 (Exclusive of Lakes Erie and Ontario),
W77-01418 1003 2H

Limnological Studies of Flathead Lake, Montana: A Status Report,
W77-01796 1004 5C

Elements of Limnological Specificity of Large Lakes in the Temperate Zone, (In Russian),
W77-02260 1005 2H

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

First Report on the Limnology of the Alpine Lake La Caldera, in the Penibetic Mountains (Sierra Nevada, Granada, Spain),
W77-04150 1009 5C

Limnological Data and Their Use in Practical Water Management, (In German),
W77-04657 1010 5G

Ybbarpsan-A Small Receptacle for a Large Industry: Limnological Study of the Ybbarpsan River, (In Swedish),
W77-05339 1011 5C

Lake Izabal, Guatemala,
W77-07504 1015 5C

The Lentic and Lotic Freshwater Types of Marion Island (Sub-Antarctic): A Limnological Study,
W77-07514 1015 5C

Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

A Primer on Limnology,
W77-08605 1018 2H

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

The Physico-Chemical Limnology of the Mwenda River Mouth, Lake Kariba,
W77-09614 1020 5C

Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

Limnological Studies of the Island Area of Western Lake Erie,
W77-11926 1023 2H

Limnological Studies on the Three Dammed Lakes, Constructed in the Watercourse of the Monobe River, Kochi Prefecture, (In Japanese),
W77-12364 1024 5C

Results of Freshwater Studies in the International Biological Program: Limnological Research in Japan, (In Russian),
W77-12987 1024 2H

LIMPET
Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

LIMPETS
Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

LIMPOPO RIVER
Thor Across the Limpopo.
W77-01369 1003 8A

LIMULUS ASSAY
Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

LINCOLNSHIRE LIMESTONE (ENGLAND)
Hydrochemistry and Ground-Water Mixing in Part of the Lincolnshire Limestone Aquifer, England,
W77-01627 1004 2F

LINDANE
Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

LINDANE (GAMMA-HEXACHLOROCYCLOHEXANE)
Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

LINDOX PROCESS
Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

LINEAR ALKYL BENZENESULFONATES
Thermal Effects on Biodegradation of Pollutants in Water,
W77-02218 1005 5B

LINEAR ALKYL SULFONATES
Thermal Effects on Biodegradation of Pollutants in Water,
W77-02218 1005 5B

LINEAR ALKYLATE SULFONATES
Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

LINEAR ALKYLBENZENE SULFONATE
Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

LINEAR AUTOREGRESSIVE PROCESSES
Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

LINEAR CONTROL CURVES
Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

LINEAR DISPLACEMENT
Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

LINEAR PROGAMMING
Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

LINEAR PROGRAMMING
Environment, Energy, and Capital in the Fossil Fueled Electric Power Industry,
W77-00118 1001 3E

Weather-Dependent Pricing for Water Resources in the Texas High Plains,
W77-00122 1001 3F

A Stable Estimator for Linear Models 1. Theoretical Development and Monte Carlo Experiments,
W77-00123 1001 4A

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Linear Models for Groundwater Management,
W77-01180 1003 4B

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

A Selected Annotated Bibliography on the Analysis of Water Resource Systems, Seventh Volume.
W77-03967 1008 6A

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

Integration of Aquifers in Flood Control Projects,
W77-06723 1014 4A

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

A Test of Alternatives for Meeting Public Potable Water Requirements,
W77-12159 1023 5G

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

LINEAR REGRESSION MODELS
Prediction Models for Monthly Runoff,
W77-11437 1022 4A

LININGS
Sewer Lining,
W77-01491 1003 8G

Sanitary-Hygienic Aspects of the Use of New Preparations for Controlling Seepage in Water Bodies, (In Russian),
W77-02269 1005 4A

Assessing Synthetic and Admixed Materials for Lining Landfills,
W77-02410 1005 5E

Pennsylvania Uses Liners to Control Ground Water Contamination from Landfill Operations,
W77-06172 1013 5G

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

What's New in Landfill Liners.
W77-07051 1014 5G

Corrosion Avoidance in Water and Sewage Pipelines,
W77-09832 1020 8F

PVC Lining--The Answer to Corrosive Attack by H2S in Concrete Sewers and Structures.
W77-09835 1020 8G

Watertight Case for Pond Liners.
W77-09891 1020 5G

Collection, Treatment and Reutilization of Waste Waters in Arid Zones of the Middle East,
W77-10591 1021 5D

An Asphalt Incorporator and Packer for Lining Irrigation Ditches,
W77-11411 1022 4A

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

LINK SLOPE
Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

LINKED MODELS
Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

LINN COUNTY (IOWA)
Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

LINSEED
Water Management in Linseed,
W77-04788 1010 3F

LINSLEY POND (CONN)
Mineralogical Composition of Submerged Aquatic Macrophytes from Connecticut,
W77-09477 1019 5A

LINURON
Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

LIPIDS
Lipid Transformation in Seawater by Oil-Oxidizing Microorganisms, (In Russian),
W77-01030 1002 5A

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Lipids of Smittium Culisetae,
W77-02547 1005 5A

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

Alteration in the Toxicity of Tissue Lipids with the Adaptation of Fishes to Osmotic Pressure Changes in the Environment,
W77-07120 1015 5C

Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

LIPOSE
Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

LIQUEFACTION
Stabilization of Potentially Liquefiable Sand Deposits Using Gravel Drains,
W77-10777 1021 8D

LIQUID DIGESTED SLUDGE
Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

LIQUID JET EDUCTORS (PUMPS)
Liquid Jet Eductors, The 'Pumps' with No Moving Parts,
W77-08671 1018 8C

LIQUID OXYGEN
What's Up with Oxygen/2,
W77-08627 1018 5D

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

LIQUID OXYGEN SYSTEM
Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

LIQUID SCINTILLATION COUNTING
The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

LIQUID WASTES
'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

Sewage Sludge Treatment System,
W77-03487 1007 5D

Potential Replacement of Septic Tank Drain Field by Artificial Marsh Waste Water Treatment Systems,
W77-04117 1009 5D

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

Production of Gibberellic Acid Using a Dairy Waste as the Basal Medium,
W77-06216 1013 5D

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

Underflow from Sludge-Irrigated Cropland,
W77-07056 1014 5B

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

Electrolytic Treatment of Chromate and Cyanide Wastes with Packed Bipolar Cell, (In Japanese),
W77-07211 1015 5D

Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

Meat and Poultry Products Plant Liquid Effluent Regulations and Guidelines.
W77-12774 1024 5G

Apparatus for the Treatment of Liquids,
W77-12938 1024 5D

LIQUID WATER CONTENT
Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

LIQUIFIED NATURAL GAS (LNG)
Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

LISTER-TILL
Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

LITERATURE REVIEW
Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

LITERATURE REVIEWS
Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

Medical and Biologic Effects of Environmental Pollutants. Chromium.
W77-02635 1006 5C

Water Resources Technology Transfer -- A Guide,
W77-04346 1009 10F

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

Literature Review of Wastewater Characteristics and Abatement Technology in the Wood and Timber Processing Industry.
W77-06951 1014 5D

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

LITERATURE SURVEYS
Hydrologic Aspects of Space Investigations of the Earth's Surface (Literature Survey),
W77-03848 1008 7B

LITHIUM
Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

LITHOFACIES
Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

LITHOLOGIC LOGS
Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

LITHUANIAN-SSR
Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

LITTER
Litter and Oil on the Shores of Utsira, Rogaland County, During Autumn 1974, (In Danish),
W77-03125 1007 5B

Let's Talk Rubbish Part 3: Litter,
W77-11545 1023 5B

LITTLE ANDROSCOGGIN RIVER (ME)
Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

LITTLE ARKANSAS RIVER BASIN
Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

LITTLE ARKANSAS RIVER BASIN (KANS)
The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

LITTLE ARKANSAS RIVER (KA)
Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

LITTLE CONNEMARA DAM (RHODESIA)
The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

LITTLE FORK RIVER (MINN)
Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

LITTLE FOSSIL CREEK (TX)
Flood Plain Information: Big and Little Fossil Creeks, Fort Worth, Texas.
W77-09364 1019 4A

LITTLE LLAGAS CREEK (CA)
Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

LITTLE LOTTS CREEK (GA)
Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

LITTLE RIVER (VA)
Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

LITTLE SALT CREEK (NB)
Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

LITTLE SIOUX RIVER (IA)
Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

LITTORAL
Littoral Zooplankton of the Baikal Open Zone, (In Russian),
W77-00333 1001 2H

Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

The Epibiotic Flora and Fauna of the Serpulid Zone in the Littoral Region on the Mukkan Coast (Bay of Bengal), (In Italian),
W77-00530 1002 2L

Numerical Models of Lake Currents,
W77-00722 1002 5B

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Ecological Relations Between Invertebrates and Submerged Macrophytes in the Lake Littoral,
W77-06694 1014 5C

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

Composition and Dynamics of the Bottom Animals in the Littoral Zone of Dojran Lake, Macedonia,
W77-07457 1015 5C

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

Two New Methods for Obtaining Water Samples from Shallow Aquifers and Littoral Sediments,
W77-12310 1024 7B

Lipolytic Enterobacteria of the Odessa Bay Littoral Zone, (In Ukranian),
W77-12974 1024 5C

LITTORAL DRIFT
Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Study and Evaluation of Remedial Sand Bypassing Procedures,
W77-02933 1006 2L

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

Littoral Drift Estimates Along the Coastline of Florida,
W77-06882 1014 2L

A Coastal Engineering Study of Indian River Inlet, Delaware,
W77-10189 1021 8B

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

LITTORINA IRRORATA
The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

LIVE-CAGE BIOASSAYS
Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

LIVERPOOL BAY
Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

LIVERPOOL BAY (ENGLAND)
Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

LIVESTOCK
A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

Livestock and the Environment, A Bibliography with Abstracts--Volume III,
W77-09398 1019 5D

Quantification of Beneficial Effects of Sprinkler Irrigation Apart from Increase in Crop Yield, (In German),
W77-10726 1021 3F

LIVESTOCK WASTE MANAGEMENT
Application of the Rotating Flighted Cylinder to Livestock Waste Management,
W77-09795 1020 5D

LLAGAS CREEK (CALIF)
Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church,

LLAGAS CREEK (CALIF)

San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

LLYN CWELLYN (WALES)

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

LLYN PADARN (N WALES)

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

LLYN PERIS (N WALES)

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

LOACH

Uptake of Dissolved Ammonium and Nitrate Ion by the Fry of Common Carp, Crucian Carp and Loach from Surrounding Water, (In Japanese),
W77-07314 1015 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

LOAD DISTRIBUTION

Snow Pressure on Rigid Obstacles,
W77-02463 1005 2C

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

Analysis of Data from Instrumentation Program, Columbia Lock,
W77-10783 1021 8G

LOAD TRANSFER

Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

LOADING RATES

Land Spreading of Manure from Animal Production Units,
W77-01544 1003 5E

LOADS (FORCES)

Static Calculation of Drainage Channels and Pipes (Die statische Berechnung von Entwasserungskanalen und-leitungen),
W77-09833 1020 8G

LOAM

Infiltration of Tritium-Labeled Water in Two Subsoil Loosened Greyloam-Pseudogleys, (In German),
W77-06462 1013 2G

Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

LOAMS

Experimental Equipment for Studying Soil Erosion Resistance and Some Results of Its Appliation, (In Russian),
W77-12999 1024 2G

LOANS

Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

LOBSTER

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

LOBSTER POTS

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

LOBSTERS

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Beneficial Use of Thermal Effluent in Lobster Culture,
W77-01707 1004 5C

Effects of Water Temperature and Housing Conditions Upon the Aggressive Behavior of the Lobster Homarus Americanus,
W77-03050 1006 5C

The Case of the Incidental Lobster: United States Regulation of Foreign Harvesting of Continental Shelf Fishery Resources,
W77-04352 1009 6E

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

LOCAL GOVERNMENT

People v Texaco, Inc (County Regulation of Tidewater Bordering on or Lying Within its Boundaries).
W77-11204 1022 6E

LOCAL GOVERNMENTS

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Watershed Improvement Districts.
W77-01000 1002 6E

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W77-02076 1005 2A

Village of Lombard V State Pollution Control Board (Pollution Control Board Without Authority to Impose Regionalization Upon Local Governmental Bodies).
W77-03511 1007 6E

Waterway Districts.
W77-03516 1007 6E

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Water Pollution Control Act of 1972, Economic Impacts, State and Local Revenue Expenditures.
W77-04305 1009 5G

Developments in Water Quality and Land Use Planning: Problems in the Application of the Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

A Structural-Functional Analysis of the Socio-Political System Relative to Water and Related Land Resources in the Coastal Zone of South Carolina,
W77-05722 1012 6B

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

City of Corpus Christi V Neuces County Water Control and Improvement District No 3 (Water Improvement District Allowed to Supply Water for Domestic Use to Neighboring Town).
W77-06065 1012 6E

The Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W77-06532 1013 5D

Pinellas County V. Lake Padgett Pines (Water Resources Act and Effect of Water Withdrawal Project),
W77-06574 1013 6E

Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

Mitchell V. City of High Point (Municipal Liability for Damage from Overflow of Privately-Owned Stream).
W77-08145 1017 6E

Sovereignty and the Control of Water Pollution,
W77-08366 1017 5G

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Florida's Land Use Restrictions: Are They Serving the Public Interest,
W77-10465 1021 6E

Impacts of Water Availability on Residential Development,
W77-12891 1024 6D

LOCAL PLANNING
Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

LOCAL POPULATION
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

LOCAL PRECIPITATION
Stochastic Structures of the Local Pattern of Precipitation,
W77-10787 1021 2B

LOCH EIL (SCOTLAND)
The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

LOCH ETIVE (SCOTLAND)
Control of Fjordic Deep Water Renewal by Runoff Modification,
W77-03975 1008 2L

LOCH LINNHE (SCOTLAND)
The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

LOCH NESS (SCOTLAND)
Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

LOCK AND DAM NO. 26 (MISSISSIPPI RIVER)
Comparison of 4-1/2-and 7-In. (6-In. Nominal) Maximum Size Aggregate Mixtures for New Lock and Dam No. 26, Mississippi River,
W77-10978 1022 8F

LOCK EWE (SCOTLAND)
Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

LOCKS
Lock Wall Deicing with Water Jets: Field Tests at Ship Locks in Montreal, Canada and Sault Ste. Marie, Michigan,
W77-02156 1005 8C

Development of Navigation with Locks and Dams,
W77-02943 1006 8B

Ice Flushing from St. Lawrence Seaway Locks; Hydraulic Model Investigation,
W77-02953 1006 8B

Barkley Lock Prototype Tests Cumberland River, Kentucky,
W77-02960 1006 8B

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Analysis of Data from Instrumentation Program, Columbia Lock,
W77-10783 1021 8G

LOCKWOODS FOLLY INLET (NC)
Flow Dynamics and Sediment Movement in Lockwoods Folly Inlet, North Carolina,
W77-12913 1024 2L

LODGEPOLE PINE TREES
Airflow Patterns and Snow Accumulation in a Forest Clearing,
W77-00726 1002 4C

Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

LOESS
Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

The Production and Recognition of Aeolian Features on Sand Grains by Silt Abrasion,
W77-03999 1008 2J

Rapid Determination of Unsaturated Hydraulic Conductivity in Tilled and Untilled Loess Soil,
W77-05352 1011 2G

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Soil Formation on Loess in Southwestern Indiana: I. Loess Stratigraphy and Soil Morphology,
W77-07762 1016 2G

Soil Formation on Loess in Southwestern Indiana: II. Distribution of Clay and Free Oxides and Fragipan Formation,
W77-07763 1016 2G

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

LOG PEARSON TYPE III
Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

LOG PEARSON TYPE III DISTRIBUTION
An Application of Computer Graphics to Analysis of Extremes,
W77-05164 1011 2E

LOG RAFTING
Water Transport of Wood (In Canada): The Current Situation,
W77-09755 1020 5C

LOGGING (RECORDING)
Well Logging Manual.
W77-04115 1009 8G

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

Open-Hole Porosity Logs Can Be Used in Cased Holes,
W77-07698 1016 8G

Multi-Shot Camera System for Borehole Surveying.
W77-08668 1018 8G

LONDON
Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

LONDON AREA (ENGLAND)
London's Stormwater Problem,
W77-06297 1013 5B

LONG BEACH HARBOR (CAL)
Los Angeles and Long Beach Harbors Model Study; Report 4, Model Design,
W77-10016 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

LONG BEACH HARBOR (CALIF)
Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

LONG COVE (MAINE)
The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

LONG ISLAND
An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

LONG ISLAND

Evidence of Salt-Water Intrusion in Southeastern Long Island,
W77-01924 1004 5B

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Long Island Beach Pollution: June 1976,
W77-07325 1015 5B

LONG ISLAND (NY)

Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Unsteady Groundwater Flow Beneath Strip Oceanic Islands,
W77-01143 1003 2F

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Nearshore Currents Off Long Island,
W77-03754 1008 2L

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

The Production and Recognition of Aeolian Features on Sand Grains by Silt Abrasion,
W77-03999 1008 2J

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

The Contribution of Fertilizer to the Ground Water of Long Island,
W77-04758 1010 5B

Leachate Plumes in a Highly Permeable Aquifer,
W77-06331 1013 5B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York,
W77-07479 1015 2F

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

LONG ISLAND SOUND

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Seasonal Variation of Residual Drift in Long Island Sound,
W77-03322 1007 2L

Sediment Mass Balance of a Large Estuary, Long Island Sound,
W77-03323 1007 2L

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

People and the Sound. Water Management.
W77-06594 1013 6B

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

LONG ISLAND SOUND (NY)

The Tides of the East River, New York,
W77-01617 1004 2L

LONG ISLAND SOUND STUDY

Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study,
W77-07232 1015 2L

LONG-PERIOD WAVES

Long-Period Waves on a Natural Beach,
W77-05157 1011 2L

LONG POND (ST. JOHNS

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

LONG-RANGE FORECASTING (ICE)

Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

LONG-RANGE FORECASTS (ICE)

Long-Range Forecasting of Maximum Ice Extent on the Great Lakes,
W77-00276 1001 2C

LONG-TERM EFFECTS

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

LONG-TERM MONITORING

The Importance of Monitoring Change,
W77-09591 1019 5A

LONG-TERM PLANNING

The Relevance of Technological Change in Long Term Water Resource Planning,
W77-00113 1001 6B

Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

A Plan for Michigan's Shorelands.
W77-00958 1002 6B

Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

Legal Problems Associated with the Role of Planning in Water Resources Management,
W77-01185 1003 6E

The State of Kansas, State Water Plan Studies, Part B, Kansas Long Range Water Requirements.
W77-04852 1010 6B

Optimal Planning of Flows in Multi-Reservoir Hydro-Power Systems,
W77-06730 1014 4A

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Conservation Districts Law.
W77-09584 1019 6E

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

Dynamic Model for Long-Term Development of Water Resources Management,
W77-10820 1022 6A

Planning Model for Simulating Distribution and Cost in a Regional Water Supply System,
W77-10822 1022 6A

Arid Lands of Sub-Saharan Africa: Appendices to the Staff Final Report.
W77-11122 1022 4C

LONG-TERM STORAGE
Multiple Markov Processes in Hydrology and Their Importance for Stochastic Analysis of Water Accumulation Problems,
W77-07684 1016 4A

LONG VALLEY CALDERA (CALIF)
Convective Heat Flow from Hot Springs in the Long Valley Caldera, Mono County, California,
W77-07488 1015 2K

LONG VALLEY (CALIF)
Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

LONG-WAVE RADIATION
On a Derivable Formula for Long-Wave Radiation from Clear Skies,
W77-03638 1008 2B

LONGITUDINAL ANALYSIS
Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

LONGITUDINAL DISPERSION
Longitudinal Dispersion in Porous Media with Variable Porosity,
W77-10659 1021 2F

LONGSHORE BARS
Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

LONGSHORE CURRENTS
Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

Wave-Induced Circulation in Shallow Basins,
W77-05970 1012 8B

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

LONGSHORE WAVES
Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

LOOE ESTUARY (CORNWALL)
Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

LOS ANGELES (CALIF)
Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

LOS ANGELES HARBOR (CA)
Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

LOS ANGELES HARBOR (CAL)
Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

LOS ANGELES HARBOR (CALIF)
Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

LOS ANGELES RIVER BASIN (CALIF)
Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

LOUGH NEAGH (IRELAND)
The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

LOUGH NEAGH (N IRELAND)
1975 Annual Report of the Freshwater Biological Investigation Unit.
W77-01804 1004 5C

LOUGH NEAGH (NORTHERN IRELAND)
The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

A Field and Laboratory Study of Oxygen Uptake by Planktonic Blue-Green Algae,
W77-10154 1021 5C

LOUISIANA
Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Sedimentation of a Flatland Watershed in Louisiana,
W77-00789 1002 4D

Digital Simulation of Aggradation and Degradation in Natural Streams,
W77-00818 1002 2J

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Louisiana Environmental Society V Brinegar (Environmental Impact Statement as to Artificial Lake to be Bridged by Highway Construction).
W77-01045 1002 6E

Ownership on Navigable Waterbottoms--California Company V Price Revisited,
W77-01078 1003 6E

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex.
W77-02671 1006 2L

1976 Environmental Conditions Relative to Shrimp Production in Coastal Louisiana,
W77-02876 1006 5C

An Inventory and Study of the Lake Pontchartrain-Lake Maurepas Estuarine Complex,
W77-02879 1006 5C

Barataria Basin: Salinity Changes and Oyster Distribution,
W77-02884 1006 5C

Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

Dispersion--Mississippi River Below Baton Rouge, La.,
W77-02989 1006 5B

Water Hyacinths for Removal of Cadmium and Nickel from Polluted Waters,
W77-03041 1006 5G

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

Long-Term Chemical Effects of Petroleum in South Louisiana Wetlands - 1. Organic Carbon in Sediments and Waters,
W77-04043 1008 5C

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

LOUISIANA

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

State v Lucius (Sabine River Authority Regulation of Access by Water to Lake).
W77-05074 1010 6E

Desormeaux V Central Industries, Inc. (Lack of Water for Irrigation Causing Crop Damage),
W77-05075 1010 6E

Atmospheric Dispersion Characteristics in the Louisiana Coastal Zone,
W77-05132 1011 5A

Barataria Basin: Hydrologic and Climatologic Processes,
W77-05133 1011 2L

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

New System Provides for Growth,
W77-06152 1013 5D

Water Resources Data for Louisiana, Water Year 1976--Volume 1. Central and Northern Louisiana.
W77-06326 1013 7C

Water Resources Data for Louisiana, Water Year 1976--Volume 2. Southern Louisiana.
W77-06327 1013 7C

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Bentley v. Industrial Fire Protection Company (Liability for Increasing Drainage onto Adjoining Property).
W77-06563 1013 6E

Floods in Louisiana, Magnitude and Frequency, Third Edition,
W77-06979 1014 2E

Nuckolls V Louisiana State Highway Department (Liability for Unauthorized Alteration of Natural Drain),
W77-07277 1015 6E

Nutrient Transformations in Louisiana Salt Marsh Soils,
W77-07319 1015 5C

Maintenance Dredging in the New Orleans District, US Army Corps of Engineers,
W77-07347 1015 8D

The Port of New Orleans and Its Dredging Program,
W77-07348 1015 8D

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

Wood V. Board of Commissioners for the Pontchartrain Levee District (Land Appropriation for Levees),
W77-08144 1017 6E

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

The Influence of Brackish-Water Intrusion on Macroinvertebrate Associations of the Lower Tchefuncte River, Louisiana,
W77-08292 1017 5B

Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

Analyses of Native Water, Bed Material, and Elutriate Samples of Major Louisiana Water Waterways, 1975,
W77-09084 1018 5A

Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp,
W77-09286 1019 5C

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

Flood Plain Information: Vermilion River and Tributaries, Lafayette, Louisiana.
W77-09366 1019 4A

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

Joubert V. State (State Liable for Flood Damage to Crops Caused by Opening of Dam's Floodgates).
W77-10483 1021 6E

Analysis of Data from Instrumentation Program, Columbia Lock,
W77-10783 1021 8G

Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

Citizen Perception of Coastal Area Planning and Development: A Study of the Attitudes and Knowledge of Louisianas,
W77-10932 1022 6B

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Development of an Areal Management Concept for Gulf Penaeid Shrimp,
W77-11124 1022 2L

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

Hydrologic Unit Map--1974, State of Louisiana.
W77-11880 1023 7C

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

LOW FLOW

Low Flow Modeling in Small Steep Watersheds,
W77-03316 1007 4D

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

Economic Value of Low Flow Data,
W77-07537 1015 5D

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

Low Flow Analyses of Streams: Details of Computational Procedures and Annotated Bibliography,
W77-08219 1017 2E

The Effects of Urbanization on Low Flows and Total Runoff,
W77-08335 1017 2A

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Missouri Stream and Springflow Characteristics Low-Flow Frequency and Flow Duration,
W77-08743 1018 2E

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

Law of Probability for Two Low Water Variables,
W77-10297 1021 2E

Application of Some Statistical Methods for the Estimation of Minimum Flow,
W77-10420 1021 2E

Low Flow Criteria for Diversions and Impoundments,
W77-11778 1023 4A

LOW-FLOW FREQUENCY
Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

Missouri Stream and Springflow Characteristics Low-Flow Frequency and Flow Duration,
W77-08743 1018 2E

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

LOW-FREQUENCY TURBULENCE
Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

LOW-TEMPERATURE GEOTHERMAL SOURCES
An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

LOW WATER MARK
Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

LOW WATER TEMPERATURE
On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

LOWER ARKANSAS RIVER VALLEY (COLO)
Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

LOWER COLORADO RIVER
Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

Water Resources Research in the Lower Colorado River Basin, 1972-1976,
W77-04148 1009 4A

LOWER COLORADO RIVER REGION
Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

LOWER COLUMBIA RIVER
Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Gas Supersaturation Research - 1975, Prescott Facility - NMFS.
W77-05784 1012 5C

LOWER CUYAHOGA RIVER (OHIO)
A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

LOWER DELAWARE VALLEY
Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

LOWER DON RIVER AREA (USSR)
Root System of the Pear in Arid Zones, (In Russian),
W77-01595 1004 2I

LOWER DON RIVER (USSR)
Evaluation of the Self-Purifying Ability of Waters of the Lower Don, (In Russian),
W77-01569 1004 5G

LOWER GRANITE DAM
Improved Bypass and Collection System for Protection of Juvenile Salmon and Steelhead Trout at Lower Granite Dam,
W77-12276 1024 8I

LOWER GREAT MIAMI RIVER VALLEY (OHIO)
Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

LOWER GREEN BAY (LAKE MICHIGAN)
Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

LOWER KAWEAH RIVER (CA)
Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

LOWER MISSISSIPPI RIVER BASIN
Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

LOWER POTOMAC RIVER ESTUARY (VA)
A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

LOWER RIO BERMEJO BASIN (ARG-PARA)
Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

LOWER RIO PILCOMAYO BASIN (ARG)
Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

LOWER SAN LUIS REY RIVER VALLEY (CALIF)
Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

LOWER SNAKE RIVER
Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

LOWER ST. LOUIS RIVER BASIN (MINN-WISC)
Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

LOWER ST. REGIS LAKE (NY)
Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

LOWER SWANSEA VALLEY (ENGLAND)
Concentrations of Copper, Iron, Lead, Nickel and Zinc in Freshwater Algal Blooms,
W77-02813 1006 5A

LOWER TUNGUSKA BASIN (USSR)
Role of Ground-Water in the Formation of the Runoff and Water Chemistry of Rivers in the Lower Tunguska Basin,
W77-06506 1013 2F

LOWLANDS
Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

LUBBOCK (TEX)
Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

LUBECK BAY (BALTIC SEA)
The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

LUBRICANTS
Lubricating Wire Rope.
W77-04129 1009 8G

How to Examine Differential Sticking Characteristics of Mud,
W77-10527 1021 8G

LUCIOPERCA
The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

LUEKEMIAS
Environmental Factors of Human Leukemias, (In Polish),
W77-01562 1004 5C

LUFIRA LAKE (CONGO)
Malacological Studies in the Lufira (Katanga) Artificial Lake Area: Distribution and Ecology of Aquatic Molluscs: Epidemiological Role of Intestinal and Urinary Bilharziosis Vectors, (In Danish),
W77-10238 1021 5C

LUGWORM
The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

LUMBER
Floating Timber on Streams.
W77-03492 1007 6E

LUMBERING
Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Geotechnical Management of Forest Lands in Granitic Terrane,
W77-00800 1002 4C

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Timber and Water,
W77-01480 1003 4C

Subsurface Flow Interception by a Logging Road in Mountains of Central Idaho,
W77-01948 1004 4C

Groundwater Pollution by Wood Waste Disposal,
W77-02591 1006 5B

Floating Timber on Streams.
W77-03492 1007 6E

Effects of Forest Cultural Treatments Upon Streamflow,
W77-03795 1008 4C

Some Thermal and Biological Effects of Forest Cutting in West Virginia,
W77-04273 1009 5C

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Damage by Floating Timber.
W77-06577 1013 6E

Boom Companies; Construction, Powers Of,
W77-08157 1017 6E

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Are Clear-Cut Areas Estimated from LANDSAT Imagery Reliable,
W77-08416 1017 4A

Operational Considerations for the Application of Remotely Sensed Forest Data from LANDSAT or Other Airborne Platforms,
W77-08417 1017 7C

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

Logging Roads and Protection of Water Quality.
W77-09725 1020 5G

Water Transport of Wood (In Canada): The Current Situation,
W77-09755 1020 5C

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

Effects of Log Handling and Storage on Water Quality,
W77-09760 1020 5C

LUMBERING WASTES
Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

LUMBRICULIDAE
Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

LUMBRICULUS
A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

LUMINESCENCE
Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

LUMSDEN LAKE (ONTARIO)
Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

LUNAR PERIODICITY
The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

LUNZER OBERSEE (AUSTRIA)
The Vertical Distribution of Plankton Rotifers in a Small Alpine Lake with a Sharp Oxygen Depletion (Lunzer Obersee),
W77-07456 1015 5C

LURGI PROCESS
Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

LUXURY UPTAKE
A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

LYMNAEA TRUNCULATA
Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

LYSIMETER
Computation of the Potential Evapotranspiration and Their Comparison with Values of the Actual Evapotranspiration of Lysimeters, (In German),
W77-03118 1007 2D

LYSIMETERS
The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Snowmelt Lysimeters Perform Well in Cold Temperatures in Central Colorado,
W77-01432 1003 2C

The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

The Use of Lysimeters in the Hydrological Investigation of the Unsaturated Zone,
W77-07780 1016 2D

Recharge to Bunter Sandstone Determined From Lysimeters,
W77-09108 1019 2F

Assessment of Water Loss Patterns with Microlysimeters,
W77-11115 1022 2D

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

All-Plastic Suction Lysimeters for the Rapid Sampling of Percolating Soil Water,
W77-12005 1023 5A

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

LYSOSOMES
The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

M.S.222
Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

MAAR LAKES (AUSTRALIA)
A Comparative Study of the Limnology of Three Maar Lakes in Western Victoria (Australia), 1. Physiography and Physicochemical Featues,
W77-00447 1001 2H

MACKENZIE DELTA (NWT)
Aspects of Zoobenthos Ecology of the Mackenzie Delta, N.W.T.,
W77-07499 1015 5C

MACKENZIE RIVER WATERSHED (CANADA)
Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

MACKEREL
Seasonal Fluctuations in the Abundance of the Larvae of Mackerel and Herring in the Northeastern Atlantic and North Sea,
W77-05834 1012 2L

MACKEREL EGGS
Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

MACLURE GLACIER (CALIF)
Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

MACOMA BALTHICA
Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

MACROBENTHIC POPULATION STUDIES
Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

MACROBRACHIUM ROSENBERGII
Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

MACROCYSTIS
Kelp Habitat Improvement Project,
W77-02417 1005 2L

MACROCYSTIS PYRIFERA
In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

MACROINVERTEBRATES
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

MACROPHYTE VEGETATION
The Macrophyte Vegetation of Five Lakes in Vefsn, Nordland County, North Norway, (In Norwegian),
W77-00823 1002 5C

MACROPHYTES
Submersed Macrophytes and Their Communities as Indicators of Water Contamination,
W77-01570 1004 5C

Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Use of Plant Pathogens for Bioregulation of Aquatic Macrophytes,
W77-02514 1005 5G

Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: I. On the Tolerance of Marsh and Water Plants of P-Toluene Sulfonic Acid, (In German),
W77-05099 1010 5C

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

Ecological Relations Between Invertebrates and Submerged Macrophytes in the Lake Littoral,
W77-06694 1014 5C

Macrophytes and Phosphorus in Lake Andsjon, Central Sweden, (In Swedish),
W77-07582 1015 5C

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

A Quantitative Sampler for Submerged Aquatic Macrophytes,
W77-10226 1021 7B

Microorganisms Oxidizing Petroleum and Petroleum Products in the Presence of Higher Aquatic Plants, (In Russian),
W77-10250 1021 5C

The Biomass, Organic Matter Contents and Calorific Values of Macrophytes in the Lakes of the Szeszupa Drainage Area,
W77-11511 1023 5C

MACROPHYTES (AQUATIC)
Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

MACROPHYTES (SUBMERGED)
Distribution and Indicatory Value of the Submerged Macrophytes in the Flowing Waters of the Friedberger Au, (In German),
W77-06802 1014 5C

MACROPHYTIC ALGAE
Macrophytic Algae of the Vostok Bay (Sea of Japan), (In Russian),
W77-01142 1003 5C

MACROZOOPLANKTON
The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

MADDEN LAKE (PANAMA CANAL ZONE)
Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

MADHYA PRADESH (INDIA)
A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

E.L.C. Water Development Project, Betul (M.P.) India: Fifth Annual Report, 1975-1976,
W77-07696 1016 8B

MADISON AQUIFER (WYO)
Permeability and Ground Water Circulation in the Madison Aquifer Along the Eastern Flank of the Bighorn Mountains of Wyoming,
W77-03122 1007 2F

MADISON GROUP
Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

MADISON LIMESTONE
Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

MAGNE-SET
New Lost Circulation Remedy is Easy to Use.
W77-07299 1015 8G

MAGNESIUM
Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Dissolution of Illite--A Possible Mechanism of Potassium Release,
W77-02283 1005 2G

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Effect of Some Chemical Elements on the Accumulation of Cesium-137 in Freshwater Fish, (In Russian),
W77-08322 1017 5C

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

Heterovalent Cation Exchange Equilibria in Soils With Variable and Heterogeneous Charge,
W77-09440 1019 2G

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

MAGNESIUM IONS
Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

MAGNETIC FIELD
Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

MAGNETIC FIELDS
Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

MAGNETIC FILTRATION
Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

Removal of Algae from Florida Lakes by Magnetic Filtration,
W77-02522 1005 5D

Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

High Gradient Magnetic Filtration,
W77-03418 1007 5D

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

MAGNETIC REMOVAL (WASTES)
Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

MAGNETIC SEPARATION
Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09825 1020 5D

Waste Water Treatment Method and Apparatus,
W77-12934 1024 5D

MAGNETIC SEPARATION (WASTES)
Some Aspects of High Gradient Magnetic Separation,
W77-10349 1021 5D

MAGNETIC STUDIES
Steel-Plant Stackgas Cleanup: An Attractive Role for Magnetism,
W77-01996 1004 5D

Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

MAGNETIC TREATMENT
Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

MAGNETITE
Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

MAGOTHY AQUIFER
Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

MAGPIE RIVER (CANADA)
Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

MAHARASHTRA STATE (INDIA)
Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

MAHE
Rainfall in the Seychelles 1941 to 1970,
W77-03096 1007 2B

MAHHYA PRADESH (INDIA)
A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

MAIN-STEM COLUMBIA
Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

MAINE
Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

Fisheries Management and Social Context: The Case of the Maine Lobster Fishery,
W77-00383 1001 6B

Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

Resource Inventory Management Planning System (RIMPS). User Manual,
W77-01294 1003 5G

Limnological Data Report for the Maine Department of Environmental Protection--U. S. Geological Survey Cooperative Lake Studies Project,
W77-01414 1003 2H

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Environmental Impact Assessment, Water Quality Analysis, St. John River (Maine).
W77-01977 1004 5G

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

Maine Rivers Bibliography- A User's Manual,
W77-02224 1005 10C

Effect of Zinc-Coated Culverts on Vertebrate and Invertebrate Fauna in Selected Maine Streams,
W77-03170 1007 5C

Heavy Metal Levels in Suspended Particulates, Biota, and Sediments of the St. Croix Estuary in Maine,
W77-04176 1009 5B

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Maine Lake Water Quality Strategy.
W77-06357 1013 5C

Policy Regarding the use of Copper Compounds as Aquatic Herbicides in Maine.
W77-06366 1013 5G

Private Sewage Disposal in Maine.
W77-06371 1013 5G

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Classification of Surface Waters.
W77-06373 1013 5G

Standard Procedures for Biological Evaluation.
W77-06374 1013 5A

Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

The Historic and Present Relationships Between Phytoplankton, Limiting Nutrients, and Sediment-Water Geochemical Processes in Selected Maine Lakes,
W77-06741 1014 5C

Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

The Import - Export Clause and Control of Oil Pollution: Regulatory Fee Imposed Pursuant to the Police Power,
W77-08354 1017 5G

States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
W77-08365 1017 6E

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

Federal and Florida Law Concerning Oil Pollution,
W77-10467 1021 6E

Water Resources Data for Maine, Water Year 1975.
W77-11371 1022 7C

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

A Preliminary Oceanographic Survey of the Damariscotta River Estuary, Lincoln County, Maine,
W77-11657 1023 5B

Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

Flood Plain Information: Saco River, Fryeburg, Maine.
W77-11847 1023 4A

Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

MAINTENANCE

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Contract Services Stretch Sewer Maintenance Budget,
W77-06994 1014 8G

Maintenance Dredging in the New Orleans District, US Army Corps of Engineers,
W77-07347 1015 8D

Some Reflections of a Sewage Works Manager,
W77-07952 1016 5D

Kelly Care Extends Service Life,
W77-08311 1017 8C

Ideas Aplenty-But Still Sewers Face Cash Neglect.
W77-08554 1017 8G

Well Maintenance and Rehabilitation,
W77-10516 1021 8B

Wastewater Collection,
W77-10549 1021 5D

Grout Routs Sewer Problems,
W77-10590 1021 5D

Keep Maintenance in Mind When Designing or Using Pumps.
W77-11488 1022 5D

Sewer Maintenance and Rehabilitation.
W77-11499 1022 5D

Sewer Renovation Techniques.
W77-12449 1024 8C

Well Redevelopment: Part 1,
W77-12673 1024 8B

MAINTENANCE COSTS

Getting Water from the Sun,
W77-05937 1012 3F

Construction and Maintenance Costs of Sewer Systems (Bau- und Betriebskosten von Kanalisationsanlagen),
W77-08542 1017 8A

MAINTENANCE MEDIA

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

MALACHITE GREEN

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

MALACOLOGICAL STUDIES

Malacological Studies in the Lufira (Katanga) Artificial Lake Area: Distribution and Ecology of Aquatic Molluscs: Epidemiological Role of Intestinal and Urinary Bilharziosis Vectors, (In Danish),
W77-10238 1021 5C

MALARIA

Water Reservoirs.
W77-04381 1009 6E

MALATHION

Substitute Chemical Program: Initial Scientific and Minieconomic Review of Malathion.
W77-00192 1001 5C

The Relationship of Malathion and its Metabolites to Fish Poisoning,
W77-00885 1002 5C

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Kinetics of Chemical Degradation of Malathion in Water,
W77-04800 1010 5B

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

MALAWI

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

MALAYA

Algal Productivity of Natural and Artificially Enriched Fresh Waters in Malaya,
W77-07471 1015 5C

MALAYSIA (PAHANG RIVER)

Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

Benefit-Cost Studies in the Pahang River Basin Study (Malaysia),
W77-00947 1002 4A

MALAYSIAN PRAWNS

The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

MALHEUR LAKE DRAINAGE BASIN (OR)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

MALHEUR RIVER DRAINAGE BASIN (OR)

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

MALI

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

MALIBU (CA)

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

MALLARD DUCK

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

MALLARD DUCKS

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

MALODOROUS

Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

MALONE CREEK (IA)
Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

MALTA
The Red Tides of Malta,
W77-11334 1022 5C

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

MALVERN
Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

MAMMALIAN CELL CULTURE
The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

MAMMALS
Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

MAN-MADE LAKES
The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

MANAGEMENT
Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

Management of the Ocean's Living Resources: An Essay Review,
W77-00179 1001 6E

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

Evaluating Environmental Quality Management Programmes in Which Dischargers are Grouped,
W77-01170 1003 5G

Linear Models for Groundwater Management,
W77-01180 1003 4B

Nonquantitative Methods in Water Resources Management,
W77-01348 1003 6B

Optimal Management of the Subsurface Environment,
W77-01884 1004 4B

Modele D'Amenagement et De Gestion D'un Grand Bassin Hydrographique, (A Model for the Design and Management of a Large Hydrographic Basin),
W77-01887 1004 4A

'Common Property' as a Concept in Natural Resources Policy,
W77-02064 1004 6B

Equity Measures for Exploring Water Quality Management Alternatives,
W77-02075 1004 5G

Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

Old Answers to 'New' Problems: Henry George, Property Rights and Environmental Quality,
W77-02539 1005 6B

Coastal Zone Boundaries.
W77-02685 1006 2L

Coastal Zone Boundaries. Summary.
W77-02688 1006 2L

Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

Water Pollution Control Administration, A Memorandum Report on a Reconnaissance Study.
W77-03684 1008 5G

Water Problems in the Colorado River Basin: Legal and Institutional Framework,
W77-03830 1008 5G

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-03931 1008 5G

Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Demonstration of a State Water Quality Management Information System,
W77-04021 1008 5G

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Ecolibrium, A Balance Between Economy and Ecology,
W77-04470 1009 6G

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Ecological Modeling in a Resource Management Framework: An Introduction,
W77-04494 1009 6G

Cleaner: The Lake George Model,
W77-04495 1009 6G

The Delaware Estuary,
W77-04497 1009 6G

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

Evaluation of Water Quality Models: A Management Guide for Planners,
W77-04507 1009 5G

Kearney Feeder's Early Effort Earns Environmental Award.
W77-04628 1010 5G

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

The Management of Urban Coastal Resources,
W77-04845 1010 6B

Systems Approach to Water Management,
W77-05009 1010 6A

Coastal Zone Management: The Process of Achieving Equilibrium,
W77-05036 1010 6E

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

Connecticut River Water Resource Decision-Making,
W77-06017 1012 6B

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

La Science des Systemes dans la Planification des Ressources en Eau,
W77-06736 1014 6A

Improvement of Planning for Post-Development Water Resource Management: A Study of the Weber Basin Project,
W77-06739 1014 6B

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

Coastal Zone Management, Annotated Bibliography,
W77-06937 1014 2L

Water Resources Planning and Management Goals,
W77-07523 1015 6B

Decision-Making for Environmental Resources Management,
W77-07542 1015 6G

Towards System Models for Water Resource Management,
W77-07544 1015 6A

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Coastal Energy Impact Program.
W77-08358 1017 6E

The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
W77-08720 1018 6E

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Future Environmental Quality Management Using Models,
W77-09155 1019 5G

Potential Water Recreation Opportunities at Municipal and Private Forest Mountain Reservoirs,
W77-09272 1019 6B

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Manure Harvesting Practices: Effects on Waste Characteristics and Runoff,
W77-09396 1019 5D

Environmental Changes in Lake Erie and Their Future Impact on Lake Resources.
W77-09454 1019 5C

Weather Modification Effects and Management (A Bibliography with Abstracts),
W77-09694 1020 2B

Construction Management for Waste Water-treatment Plants,
W77-09920 1020 5D

Proceedings: Minnesota's Water Resources in the Year 2000, A Conference on Planning and Management.
W77-10177 1021 6B

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10883 1022 5G

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone. Spec. Rept. III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Volume II--Appendices,
W77-10908 1022 2L

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Development of an Areal Management Concept for Gulf Penaeid Shrimp,
W77-11124 1022 2L

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

Selecting and Planning High Country Reservoirs for Recreation Within a Multipurpose Management Framework,
W77-11938 1023 6B

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

New York's Marine Fisheries: Changing Needs in a Changing Environment,
W77-12247 1023 6B

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

MANAGEMENT PROGRAMS

Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

MANATI RIVER (PUERTO RICO)
Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

MANEB
Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

MANGANESE
Manganese and Iron Removal from Water by Adsorption on Diatomaceous Earth,
W77-00155 1001 5F

Manganese in Fresh Waters, (In Russian),
W77-00405 1001 5A

Manganese in Narragansett Bay,
W77-00642 1002 5A

Some Aspects of the Chemical Composition of Trapa Natans L. in Lake Maggiore (Italy), Especially Manganese and Iron, (In French),
W77-02250 1005 5C

Trace Elements in Soils of the Dnieper-Bug Liman, (In Ukranian),
W77-02258 1005 2G

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay,
W77-03556 1007 5B

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

Effect of Organic Acids on Experimental Manganese Isolation from Bottom Sediments, (In Russian),
W77-07597 1015 5B

The Behaviour of Dissolved Iron, Manganese and Zinc in the Beaulieu Estuary, S. England,
W77-08701 1018 5B

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

Automated Catalytic Ultramicrodetermination of Manganese in Natural Waters with a Miniature Centrifugal Analyzer,
W77-09753 1020 2K

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Correlation of Plant Manganese with Extractable Soil Manganese and Soil Factors,
W77-10281 1021 2G

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: I. Supply of Copper, Zinc, and Manganese,
W77-11954 1023 3C

Nutrient Uptake by Russet Burbank Potatoes as Influenced by Fertilization,
W77-12128 1023 3F

Fulvic Acid and Aquatic Manganese Transport,
W77-12136 1023 5B

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

MANGANESE COMPLEXES
Manganese in Fresh Waters, (In Russian),
W77-00405 1001 5A

MANGANESE COMPOUNDS
Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

MANGANESE NODULES
International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

MANGANOUS SULFATE
Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

MANGO
Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

MANGROVE
Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

MANGROVE SWAMPS
Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

Aspects of Red Mangrove Reforestation in Florida,
W77-03950 1008 5G

Suggested Mangrove Transplanting Techniques,
W77-03951 1008 5G

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

Potential Influence of Thermal Effluents on the Production and Water-Use Efficiency of Mangrove Species in South Florida,
W77-05546 1011 5C

Rooting and Growth of Red Mangrove Seedlings from Thermally Stressed Trees,
W77-05547 1011 5C

Mangrove Ecology and Deltaic-Estuarine Geomorphology: Cambridge Gulf-Ord River, Western Australia,
W77-07738 1016 2L

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

Mangroves as Monitors of Change in the Spanish River,
W77-11155 1022 6E

MANGROVES
Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

MANHOLES
Innovations in Sewer Design and Construction,
W77-03399 1007 8G

MANIFOLDS
Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

MANITOBA
Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

MANMADE LAKES
A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

MANNINGS EQUATION
Manning N and the Overland Flow Equation,
W77-07371 1015 2E

MANPOWER UTILIZATION
Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

MANUAL DEVELOPMENT
Techniques of Researching Information for the Development of a Manual to Vegetate Soils of Low Productivity Disturbed by Construction Activities,
W77-00805 1002 4D

MANUFACTURING
Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

MANUFACTURING OPERATIONS
Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

MANURE DISPOSAL
Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

MANURE PACK
Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

MAPOCHO RIVER (CHILE)
Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

MAPPING
Mapping Runoff-Producing Zones in Humid Regions,
W77-00368 1001 4A

Geomorphological Mapping Applied to Soil Erosion Evaluation,
W77-00369 1001 2J

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Potential Use of Satellite IR Data for Ice Thickness Mapping,
W77-01913 1004 2C

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

National Program for Managing Flood Losses: Guidelines for Preparation, Transmittal, and Distribution of Flood-Prone Area Maps and Pamphlets,
W77-03341 1007 7C

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-04199 1009 2C

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

A Descriptive Catalogue of the Australian Representative Basins 1975.
W77-05816 1012 4D

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-06915 1014 2C

Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

Symap Computer Projections of Summer Zooplankton Populations in Van Lake, Montana,
W77-07511 1015 7C

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

LANDSAT-1 Data, Its Use in a Soil Survey Program,
W77-08414 1017 2G

Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

Computer Implemented Classification of Vegetation Using Aircraft Acquired Multispectral Scanner Data,
W77-08421 1017 4A

Agricultural Applications of Remote Sensing--A True Life Adventure,
W77-08424 1017 3F

Practical Application of Remote Sensing in Agriculture,
W77-08425 1017 3F

The Great Dismal Swamp: Management of a Hydrologic Resource with the Aid of Remote Sensing,
W77-10007 1020 2H

A Satellite Technique for Quantitatively Mapping Rainfall Rates Over the Oceans,
W77-10113 1021 2B

An Overview of the Applications System Verification Test on Snowcover Mapping,
W77-10663 1021 2C

Synopsis of Current Satellite Snow Mapping Techniques, with Emphasis on the Application of Near-Infrared Data,
W77-10676 1021 2C

Mapping.
W77-11363 1022 7C

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Precipitation Mapping with an Airborne Synthetic Aperture Imaging Radar,
W77-12804 1024 2B

MAPPING TECHNIQUES
Mapping.
W77-11363 1022 7C

MAPS
Hydrologic Unit Map--1974, State of Iowa
W77-00425 1001 7C

Hydrologic Unit Map--1974, State of Wyoming.
W77-00429 1001 7C

Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Hydrologic Unit Map--1974, State of North Dakota.
W77-02031 1004 7C

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

National Program for Managing Flood Losses: Guidelines for Preparation, Transmittal, and Distribution of Flood-Prone Area Maps and Pamphlets,
W77-03341 1007 7C

Hydrologic Unit Map--1974, State of Colorado.
W77-03893 1008 7C

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Terraces and Shorelines of Florida,
W77-04229 1009 7C

Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

Lake Ontario Atlas: Land Use,
W77-04846 1010 2H

Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

Hydrologic Unit Map--1974, State of Nebraska.
W77-05281 1011 7C

Hydrologic Unit Map--1974, State of New Mexico.
W77-05282 1011 7C

Variation of Link Magnitude with Map Scale,
W77-05338 1011 7C

Water Temperatures of Kentucky,
W77-05743 1012 7C

A Descriptive Catalogue of the Australian Representative Basins 1975.
W77-05816 1012 4D

Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

Hydrogeology of the Edmonton Area (Northeast Segment), Alberta,
W77-05819 1012 4B

Physical Environment Atlas of Coastal Alabama,
W77-07322 1015 2L

Preliminary Maps Showing Ground-Water Resources in the Lower Colorado River Region, Arizona, Nevada, New Mexico, and Utah,
W77-07478 1015 7C

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Hydrologic Unit Map--1974, State of Texas.
W77-08474 1017 7C

Hydrologic Unit Map--1974, State of Oklahoma.
W77-08475 1017 7C

Hydrologic Unit Map--1974, State of South Dakota.
W77-08476 1017 7C

Hydrologic Unit Map--1974, State of Kansas.
W77-08477 1017 7C

Annual Summary of Ground-Water Conditions in Arizoaa, Spring 1975 to Spring 1976,
W77-08732 1018 7C

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

The Citizen's Guide to North Carolina's Shifting Inlets,
W77-09327 1019 2L

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

Maps of Shore and Nearshore Structures, Shore and Bluffline Positions, the 100-Year Anticipated Recession Line and Shore Ownership,
W77-10506 1021 2J

Lake Ontario Atlas: Lake Temperatures,
W77-10508 1021 2H

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

Hydrologic Unit Map--1974, State of Louisiana.
W77-11880 1023 7C

Hydrologic Unit Map--1974, State of Arkansas.
W77-11881 1023 7C

Hydrologic Unit Map--1974, State of Kentucky.
W77-11882 1023 7C

Hydrologic Unit Map--1974, State of Mississippi.
W77-11883 1023 7C

Hydrologic Unit Map--1974, State of Tennessee.
W77-11884 1023 7C

Hydrologic Unit Map--1974, State of Missouri.
W77-11885 1023 7C

Map of Salty Soils of Africa,
W77-12765 1024 2G

MARECA SPP

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

MARGINAL COSTS

Analyzing the Marginal Cost of Water Supply,
W77-04170 1009 6B

MARI LAKES (USSR)

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

MARICULTURE

Harvesting the Ocean--On Land,
W77-00718 1002 5G

Northwest Mariculture Laws,
W77-03598 1007 6E

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Closed-Cycle Mariculture in Maryland, Virginia, and Delaware: An Examination of the Adaptability of Existing Fishery Laws to New Technology,
W77-06052 1012 6E

MARINAS

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Watergate Village: A Case Study of a Permit Application,
W77-04349 1009 6E

Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

MARINE ALGAE

Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

Marine Polyculture Based on Natural Food Chains and Recycled Wastes,
W77-02662 1006 5C

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Petroleum-Degrading Achlorophyllous Alga Prototheca Zopfi,
W77-04062 1008 5A

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

Effect of Metals on Photosynthesis of Marine Phytoplankton, (In Russian),
W77-08160 1017 5C

A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Filament Formation in the Diatom Skeletonema Costatum,
W77-09510 1019 5C

Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

The Effect of Copper on Competition Between Marine Algae,
W77-10051 1020 5C

Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-10728 1021 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

The Red Tides of Malta,
W77-11334 1022 5C

Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

MARINE ANIMAL
Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

MARINE ANIMALS
Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

Diversity of Marine Invertebrates in a Thermal Effluent,
W77-00883 1002 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

Toxicity, Uptake and Survey Studies of Boron in the Marine Environment,
W77-02565 1005 5C

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Toxicity of Crude Oils and a Dispersant to the Stony Coral Madracis Mirabilis,
W77-03196 1007 5C

Northwest Mariculture Laws,
W77-03598 1007 6E

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

The Distribution of Short-Chain Halogenated Aliphatic Hydrocarbons in Some Marine Organisms,
W77-04051 1008 5C

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

Behavioral Studies on Chemoreception in Balanus hameri,
W77-08799 1018 5C

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

Study of Marine Fauna from Rocky Substrates in the Zone of Sewage Outfall of the City of Marseille (France), (In French),
W77-12982 1024 5C

MARINE AQUACULTURE
Northwest Mariculture Laws,
W77-03598 1007 6E

MARINE AQUARIA
The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

MARINE AQUICULTURE
Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

MARINE BACTERIA
Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

MARINE BACTERIUM
A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

MARINE BACTERIUM NO. 9-12
A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

MARINE BENTHOS
Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

MARINE BIOLOGY
Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Winter Conditions in te New York Bight, 1973-1974.
W77-03380 1007 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

Aquaculture Projects.
W77-11460 1022 5G

MARINE DIESEL OIL
Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

MARINE ECOSYSTEMS
Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

MARINE ECOSYSTEMS ANALYSIS
Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

MARINE ENCLOSURES
Circulation and Temperature Structure in Large Marine Enclosures,
W77-11816 1023 2L

MARINE ENVIRONMENT
Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

Americium in the Marine Environment-Relationships to Plutonium,
W77-04517 1009 5C

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

MARINE ENVIRONMENTS
The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

MARINE FISH
Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

Northwest Mariculture Laws,
W77-03598 1007 6E

Fin Erosion Disease of Starry Flounder (Platichthys Stellatus) and English Sole (Parophrys Vetulus) in the Estuary of the Duwamish River, Seattle, Washington,
W77-04038 1008 5C

The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

Deleterious Effects of Corexit 9527 on Fertilization and Development,
W77-04050 1008 5C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

Larval Mortality in Marine Fishes and the Critical Period Concept,
W77-05822 1012 2L

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Transfer to Fish of Petroleum Paraffins and Organic Sulfur Compounds,
W77-10144 1021 5C

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Acute Toxicity of Water-Borne Dimethylnitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

MARINE FISHERIES

Management of the Ocean's Living Resources: An Essay Review,
W77-00179 1001 6E

Fisheries Management and Social Context: The Case of the Maine Lobster Fishery,
W77-00383 1001 6B

Forecasts of Atlantic and Gulf Menhaden Catches Based on the Historical Relation of Catch and Fishing Effort,
W77-00388 1001 6C

Status of the Gulf and Atlantic Manhaden Fisheries and Implications for Resource Management,
W77-00389 1001 6C

International Joint Ventures in Fishing and 200-Mile Economic Zones,
W77-00707 1002 6E

Optimal Exploitation of Multiple Stocks by a Common Fishery: A New Methodology,
W77-00920 1002 6A

Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

New York's Marine Fisheries: Changing Needs in a Changing Environment,
W77-12247 1023 6B

MARINE FOG

Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

MARINE FOULING

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

MARINE FUNGI

Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

Yeasts and Fungi in Marine Environments, (In French),
W77-02904 1006 5B

Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

MARINE GASTROPODS

Heavy Metals in the Gastropod Mollusc Haliotis Tuberculata (L.),
W77-10256 1021 5C

MARINE INSECTS

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

MARINE LIFE
Zooplankton of the Dniester Estuary and Adjacent Seaside Under Anthropogenic Influences, (In Russian),
W77-12977 1024 5B

MARINE MICROBIOLOGY
Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

MARINE MICROORGANISMS
Geographical and Seasonal Variability of Marine Plankton.
W77-00393 1001 5C

Phylogeny of the Family Calanidae(Copepoda) on the Basis of a Comparative Morphological Analysis of its Characters,
W77-00394 1001 5C

Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

Species Composition and Distribution of Ecological Complexes of Zooplankton in the Enisei Gulf,
W77-00399 1001 5C

Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

MARINE MINING
Marine Sand and Gravel Mining,
W77-00195 1001 3E

MARINE ORGANISMS
Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

The Production of Marine Organisms Under Natural Conditions and in Cultures (In German),
W77-06375 1013 5C

MARINE PARTICLES
Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

MARINE PHYTOPLANKTON
Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

MARINE PLANKTON
Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

MARINE PLANTS
Detritus Formation from Eelgrass (Zostera Marina L.): The Relative Effects of Fragmentation, Leaching, and Decay,
W77-00715 1002 5C

Feasibility of Transplantation, Revegetation, and Restoration of Eelgrass in San Diego Bay, California,
W77-03546 1007 5G

Response of the Marine Angiosperm Phyllospadix Torreyi to Certain Environmental Variables: A Preliminary Study,
W77-07379 1015 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

MARINE POLLUTION
Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

Marine Pollution Research Titles.
W77-05383 1011 5A

Synergistic Effects of Marine Pollution,
W77-10202 1021 5C

MARINE PRESERVES
Achievements in Marine Conservation, 1. Marine Parks,
W77-06049 1012 5G

MARINE PROTECTION
It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

MARINE RESOURCES
Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

MARINE SANITATION DEVICES
Marine Sanitation.
W77-03720 1008 6E

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

MARINE SCIENCE
Applied Mathematical Modelling in Marine Science,
W77-04008 1008 2L

MARINE SEDIMENT BACTERIA
Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

MARINE TOILETS
Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

MARION ISLAND (SOUTH ATLANTIC OCEAN)
The Lentic and Lotic Freshwater Types of Marion Island (Sub-Antarctic): A Limnological Study,
W77-07514 1015 5C

MARKET STRUCTURE
A Note on Effluent Charges and Market Structure,
W77-03955 1008 5G

MARKETING
Is There a 'Sludge Market',
W77-04727 1010 5E

Market Demand and General Location Options,
W77-05378 1011 6D

MARKING TECHNIQUES
A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

Method of Marking Aquatic Coleoptera, (In French),
W77-02920 1006 7B

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

MARKOV CHAIN MODELS
Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

MARKOV CHAINS
Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

MARKOV PROCESS
A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

MARKOV PROCESSES
Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

A Chart for Reservoir Yield Estimation Based on the Markov Process,
W77-01445 1003 4A

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

Generation of Multivariate Synthetic Flows,
W77-07610 1016 2A

Stochastic Structure of a Process of Average Monthly Flows,
W77-07651 1016 2E

Simulation of Daily Rainfall Series Using Markov Chain Models,
W77-07660 1016 2A

Multiple Markov Processes in Hydrology and Their Importance for Stochastic Analysis of Water Accumulation Problems,
W77-07684 1016 4A

Environmental Policy Choice Under Uncertainty,
W77-08004 1016 6G

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

On the Physical Interpretation of the Soil Water Diffusivity in Terms of the Theory of Markov Processes,
W77-09594 1019 2G

Stochastic Models for Precipitation,
W77-10180 1021 2B

Analysis of the Stochastic Coincidence of Certain Hydrological Processes,
W77-10299 1021 2E

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

MARNE RIVER

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

MARS

On the Habitability of Mars, An Approach to Planetary Ecosynthesis.
W77-02810 1006 6G

MARSEILLE (FRANCE)

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

MARSEILLE HARBOR (FRANCE)

Some Aspects of the Daily Development of the Plankton in the Environment of the Port of Marseille, (In French),
W77-11486 1022 2L

MARSH GAS

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

MARSH GRASS

The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

MARSH MANAGEMENT

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Legal Protection for Florida Wetlands,
W77-03696 1008 6E

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

MARSH MANAGEMENTS

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

MARSH PLANTS

A Four-Year Analysis of Vegetation Following an Oil Spill in a Freshwater Marsh,
W77-00147 1001 5C

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: I. On the Tolerance of Marsh and Water Plants of P-Toluene Sulfonic Acid, (In German),
W77-05099 1010 5C

Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: II. Elimination of P-Toluene Sulfonic Acid in Model Systems With Marsh and Water Plants, (In German),
W77-05100 1010 5C

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Analysis of the Macrofauna-Community on Stratiotes Vegetations,
W77-09489 1019 5C

Nitrogen Fixation (Acetylene Reduction) In a Salt Marsh Amended with Sewage Sludge and Organic Carbon and Nitrogen Compounds,
W77-11481 1022 5C

Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

MARSH SEDIMENTS

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

MARSHALL FORD RESERVOIR

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

MARSHES

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

The Marshes,
W77-05400 1011 2L

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

The Use of Wetlands as Nutrient Removal Systems,
W77-09520 1019 5G

Wastewater Treatment by Natural and Artificial Marshes,
W77-09606 1020 5D

Oil in Southern California Marshes,
W77-11034 1022 5C

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

Using Wetlands for Wastewater Treatment.
W77-11700 1023 5D

Concept, Research, Approval...An Effluent Irrigation Project Houghton Lake Sewer Authority.
W77-11757 1023 5E

Microbiological Characteristics of Certain Types of Marshy Forests of the Tavda Transural Region, (In Russian),
W77-12016 1023 2G

MARSHES

Coastal Waterway Act of 1975.
W77-12907 1024 6E

Plant Indicators of Hydrochemical Conditions of Limans of the Kalmyk Steppe, (In Russian),
W77-12991 1024 2H

MARYLAND

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

Model for a Study,
W77-00971 1002 2L

Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

Mechanical Control of Eurasian Watermilfoil in Maryland With and Without 2,4-D Application,
W77-01289 1003 4A

Maryland Highway Drainage Study: Volume I - Summary Report,
W77-02490 1005 4C

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

Effect of Land Development on Soil Erosion and Sediment Concentration in an Urbanizing Basin,
W77-02793 1006 4C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-02820 1006 5C

Assateague Ecological Studies.
W77-03381 1007 5C

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Watergate Village: A Case Study of a Permit Application,
W77-04349 1009 6E

Improving the Sanitary Protection of Ground Water in Severely Folded, Fractured, and Creviced Limestone,
W77-04890 1010 5B

Entrainment of Estuarine Zooplankton into a Mid-Atlantic Power Plant: Delayed Effects,
W77-05592 1011 5C

An Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control,
W77-06671 1014 5G

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Property-Coastal Shores-Private Property Rights Upheld over Claimed Public Right to Recreational use of Beach-Implied Dedication, Easement by Prescription, Public Trust Through Custom and Grant, and Doctrine of Submergence not Applicable. Department of Natural Resources V. Mayor and Council of Ocean City, 274 Md. 1, 332 A.2d 630 (1975).
W77-07239 1015 6E

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Land Use Classification for Hydrologic Models using Interactive Machine Classification of Landsat Data,
W77-08074 1016 7B

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

Effects of Economic Development on Water Resources,
W77-09051 1018 5G

Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

Evaluation of Petroleum-Degrading Potential of Bacteria from Water and Sediment,
W77-09472 1019 5B

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

Pitman v Washington Suburban Sanitary Commission (Environmental Effects Reports Only Required for State Actions).
W77-09573 1019 6E

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Water Resources Data for Maryland and Delaware, Water Year 1975.
W77-11373 1022 7C

Sediment Concentration and Duration in Stream Channels,
W77-11825 1023 2J

MARYLAND POINT

The Circulation and Salinity Distribution of the Upper Potomac Estuary,
W77-02132 1005 2L

MASCOMA LAKE (NH)

Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

MASONBORO INLET (NC)

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

MASS ALGAL CULTURES

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

MASS BALANCE CHANGES

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

MASS FLOW

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

MASS MORTALITIES

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

MASS REARING (FISH)

Mass Rearing of the Bass Dicentrarchus Labrax L.,
W77-04525 1009 2I

MASS SPECTROMETRIC ANALYSIS

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

MASS SPECTROMETRY

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

Gas Chromatography-Mass Spectrometry of Chlorophenols in Spent Bleach Liquors,
W77-04806 1010 5A

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

MASS TRANSFER

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

Turbulent Transport to a Rotation Cylinder for Large Prandtl or Schmidt Numbers,
W77-02534 1005 3A

Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W77-02535 1005 3A

Heat and Mass Transfer in Models of Undeveloped Geothermal Fields,
W77-02805 1006 4B

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

The Use of Packed Beds in Water Pollution Control,
W77-08637 1018 5D

Dry Deposition Loading of Lake Michigan by Airborne Particularate Matter,
W77-10758 1021 5A

Mass Transfer Studies in Sorbing Porous Media I. Analytical Solutions,
W77-10801 1022 2G

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

Mass Transfer Studies in Sorbin Porous Media: II. Experimental Evaluation with Tritium (3H20),
W77-11983 1023 2G

Mass Transfer Studies in Sorbing Porous Media: III. Experimental Evaluation with 2,4,5-T,
W77-11984 1023 2G

MASS TRANSPORT

On the Species Transport Equation for Flow in Porous Media,
W77-02452 1005 2F

The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

MASS TRANSPORT EQUATIONS

Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

MASSACHUSETTS

Fort River Ecosystem: Productivity of the Periphyton Component,
W77-00149 1001 5C

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Environmental Impact Assessment, Water Quality Analysis, Housatonic River,
W77-01957 1004 5G

Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

Groundwater and Groundwater Law in Massachusetts.
W77-02437 1005 4B

Proceedings of Seminar Sessions on State Water Supply Planning, Sept. - Oct. 1975, (Executive Summary).
W77-02618 1006 6B

Proceedings of Seminar Sessions on State Water Supply Planning (Sept.-Oct. 1975).
W77-02619 1006 6B

Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Water Pollution Control Act of 1972, Regional Impacts, Merrimack-Nashua River Basin.
W77-04310 1009 5G

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

New Programs Improve Sensitive Areas of Water and Sewer Systems,
W77-06995 1014 8G

Ground-Water Levels in Massachusetts, 1936-74,
W77-07485 1015 4B

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

The ARGO MERCHANT Oil Spill. A Preliminary Scientific Report,
W77-07807 1016 5C

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

Governmental Interest in Protecting Beach from Environmental Damage Through Overuse Outweighs Due Process Right to Bath Nude,
W77-08124 1017 6E

Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

Laminated Sediments in Holomictic Berkshire Lakes,
W77-08341 1017 2J

Sovereignty and the Control of Water Pollution,
W77-08366 1017 5G

Proceedings: The Connecticut River System: A Workshop on Research Needs and Priorities.
W77-08808 1018 6B

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

Hydrology of Two Small Wetland Basins in Eastern Massachusetts,
W77-09336 1019 2A

Paper Mill Wastewater Treatment by Microstraining,
W77-09758 1020 5D

Determining Photosynthetic Productivity in Streams,
W77-10080 1020 5C

Who Owns the Beach. Massachusetts Refuses to Join the Trend of Increasing Public Access,
W77-11464 1022 6E

Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

Scientific and Technical Evaluation of the Environmental Protection Agency's Wastewater Facilities Planning, Boston Case Study, Phase I: Water Quality Considerations,
W77-12472 1024 5G

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

MASSACHUSETTS BAY
A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

MAST PRODUCTION
Experimental Ecology of Selected Vertebrate Species,
W77-03564 1007 6G

MASTACEMBELIDAE
A Bew Species of Mastacembelus (Pisces, Mastacembelidae) from the Upper Zambezi River, with a Discussion of the Taxonomy of the Genus from this System,
W77-11556 1023 2I

MATAMEK RIVER (QUEBEC)
Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

MATANZAS INLET (FL)
Matanzas Inlet Glossary of Inlets Report No. 5,
W77-11051 1022 2L

MATERIALS
Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

Large-Diameter Corrugated Steel Pipe Enters Storm Sewer Field.
W77-00074 1001 5D

Sandwich Construction G.R.P.
W77-02368 1005 8G

Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

MATERIALS ENGINEERING
Pump Construction Materials,
W77-08675 1018 8G

MATERIALS RECOVERY
New Directions in Ion Exchange,
W77-08719 1018 5D

Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

MATERIALS TESTING
Model Materials Evaluation Sand Tests; Hydraulic Laboratory Investigation,
W77-02938 1006 8G

MATERIALS TRANSPORT
Flow of Slurries in Pipelines,
W77-10970 1022 8B

MATHEMATIC MODELS
Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

MATHEMATICAL ANALYSIS
Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

MATHEMATICAL MODEL
Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

Effects of Design Factors on Sedimentation Basin Performance,
W77-12514 1024 4D

MATHEMATICAL MODELS
Closed Loop Hierarchical Control for River Pollution,
W77-00051 1001 5G

Equalization of Time Variable Waste Loads,
W77-00052 1001 5D

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

Stochastic Considerations in Thunderstorm Modeling,
W77-00087 1001 2B

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

Numerical Simulation of the Arctic Ocean Circulation,
W77-00129 1001 2L

Numerical Estuarine Models for Water Quality Management in the Blackstone River-Providence River and the Taunton River-Mt. Hope Bay Complexes,
W77-00152 1001 5B

Modeling of Soil Movement Across a Watershed,
W77-00159 1001 2J

Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

A Model of Recycling and Pollution Control,
W77-00711 1002 5G

Numerical Models of Lake Currents,
W77-00722 1002 5B

The Influence of Land Use on Stream Nutrient Levels,
W77-00725 1002 5C

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

Comparison of Systems and Physical Hydrology Approaches to Hydrologic Modelling,
W77-00939 1002 2A

A Regional Stormwater Drainage Model,
W77-00940 1002 4A

The Mathematical Modelling of Rivers,
W77-00941 1002 2E

Statistical Sensitivity of Parameters in a Rainfall-Runoff Model,
W77-00948 1002 2A

Development of a Continuous Urban Rainfall-Runoff Model,
W77-00949 1002 2A

Kinematic Wave Theory Applied to Stormflow from a Mountain Catchment,
W77-00950 1002 4C

Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

Future Direction of Urban Water Models,
W77-01071 1003 5G

Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

A Predator-Prey Model for Discrete-Time Commercial Fisheries,
W77-01171 1003 6A

Ecosystem Models and Environmental Policy,
W77-01172 1003 6G

The Modelling and Control of Pollution in a River System,
W77-01175 1003 5B

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in Water-Determination of Components and Toxicity of the System-II, Solution by Computer,
W77-01260 1003 5B

The Effect of Environmental Factors on the Growth of a Natural Pasture,
W77-01285 1003 2I

Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

Statistical Properties of Environmental Data: Considerations for Bioaccumulation and Toxicity Studies of Pollutants,
W77-01316 1003 5C

Mathematical Models to Describe the Time/Space Distribution of Chemicals in a Water System,
W77-01317 1003 5B

Comparison of Two Mathematical Models of Surface Runoff,
W77-01334 1003 2E

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

A Two-Dimensional Flood Routing Model,
W77-01358 1003 4A

Vortex Velocity Prediction with Emphasis Directed Toward Vortex Tube Sediment Trap Design,
W77-01520 1003 8B

A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

A Mathematical Model for Predicting River Temperatures-Application to the Green River Below Flaming Gorge Dam,
W77-01684 1004 4A

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

A Preliminary Tidal Exchange Experiment in Masset Inlet,
W77-01916 1004 2L

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Mathematical Modeling for Water Quality Management in Streams Under Unsteady Hydraulic Conditions,
W77-01946 1004 5B

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W77-02068 1004 6C

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

Numerical Solution of Boussinesq Equation,
W77-02143 1005 2F

Swimming of Slender Fish in a Non-Uniform Velocity Field,
W77-02155 1005 2L

Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

Selection of Streamflow and Reservoir-Release Models for River-Qualtiy Assessment,
W77-02302 1005 2A

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

Modeling Reactions and Transport of Potassium in Soils,
W77-02529 1005 5B

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Hydrodynamic Model of the Great Bay Estuarine System,
W77-02667 1006 2L

Optimization of Water Resource Systems Incorporating Earthquake Risk,
W77-02831 1006 6A

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Simulation of Field Water Uptake by Plants Using a Soil Water Dependent Root Extraction Function,
W77-03315 1007 2G

Landslide Generated Water Wave Model,
W77-03318 1007 8B

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Computer Modeling,
W77-03679 1008 5B

On Realism and Generality of Bio-Accumulation Models. Towards a General Methodology,
W77-03680 1008 5B

Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

The Ottawa River Project,
W77-03683 1008 5B

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

Preoperational and Operational Hydrothermal Field Data Acquisition and Analysis,
W77-03837 1008 5B

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

Economic Modeling for Water Policy Evaluation.
W77-03924 1008 6A

Water Resource Models: A Historical Summary,
W77-03925 1008 6A

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

A Selected Annotated Bibliography on the Analysis of Water Resource Systems, Seventh Volume.
W77-03967 1008 6A

Applied Mathematical Modelling in Marine Science,
W77-04008 1008 2L

Study of the Production Process of Daphnia Longiremis Sars Population from Lake Dalnee by Means of a Mathematical Model, (In Russian),
W77-04055 1008 5C

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

Pollution Abatement and Regional Welfare: A Control Theory Approach,
W77-04169 1009 6G

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Application of a Three-Dimensional Model to Computations of Storm Surges in the Black Sea,
W77-04260 1009 2B

Symmetric Finite-Amplitude Rotational Water Waves,
W77-04266 1009 2L

Sinepower Probability Density Function,
W77-04276 1009 2E

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

Phytoplankton Models and Eutrophication Problems,
W77-04499 1009 5C

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

Mathematical Models,
W77-04523 1009 6A

Prediction of the Phytoplankton Development in Designed Reservoirs by Combining a Growth-Model and the Analogy to Existing Reservoirs, (In German),
W77-04584 1009 5C

Development and Application of a Simplified Stormwater Management Model,
W77-04637 1010 5D

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

The EPA Stormwater Management Model,
W77-04738 1010 5B

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

A Distributed Converging Overland Flow Model 1. Mathematical Solutions,
W77-04744 1010 2E

Optimal Pumping Regimes in an Unconfined Coastal Aquifer,
W77-04873 1010 4B

Tidal Water Movements,
W77-04938 1010 2L

Systems Approach to Water Management.
W77-05008 1010 6A

Rainfall-Runoff Models,
W77-05010 1010 2A

Generation of Synthetic Flow Sequences,
W77-05011 1010 2E

Ground-Water Models,
W77-05012 1010 2F

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Surface-Water Quality Management Models,
W77-05014 1010 5G

Estuarial Models,
W77-05015 1010 2L

Ecologic Models,
W77-05016 1010 5B

Economic Models,
W77-05017 1010 6A

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

Mathematical Modeling and Water-Resources Decision-Making,
W77-05019 1010 6A

Lake Ontario Ice Modeling IFYGL, Phase 3, Final Report,
W77-05128 1011 2C

Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

Numerical Predictions of Two-Dimensional Transient Groundwater Flow by the Method of Characteristics,
W77-05173 1011 2F

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

A Mathematical Model for Predicting Water Demand, Waste Water Disposal and Cost of Water and Waste Water Treatment Systems in Developing Countries,
W77-05328 1011 5D

A Perturbation Solution for a Nonlinear Diffusion Equation,
W77-05343 1011 2G

Simulation of Profile Water Storage as Related to Soil Hydraulic Properties,
W77-05349 1011 2G

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

Mathematical Models of Ice Shelves,
W77-05422 1011 2C

Temperature-Gradient Induced Mass-Instability Theory of Glacier Surge,
W77-05423 1011 2C

Glacier Sliding Down an Inclined Wavy Bed,
W77-05424 1011 2C

Glacier Sliding Down an Inclined Wavy Bed with Friction,
W77-05425 1011 2C

A Stochastic Snow Model,
W77-05489 1011 2C

Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

Computational Hydraulics: A Short Pathology,
W77-05797 1012 8B

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Management Model for Wastewater Disposal on Land,
W77-05923 1012 5E

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
W77-05931 1012 5B

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

Shot Noise Models for the Generation of Synthetic Streamflow Data,
W77-05955 1012 2E

Operational Assessment of Hydrologic Models of Long-Term Persistence,
W77-05957 1012 2E

Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

Physical and Economic Parameters for Planning Regional Waste Water Treatment Systems,
W77-06171 1013 5D

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W77-06381 1013 5C

Effects of Topography on the Circulation in and Near the Surf Zone--Linear Theory,
W77-06500 1013 2L

Numerical Model of Estuarine Circulation,
W77-06519 1013 5B

An Approximating Polynomial for the Computation of Saturation Vapor Pressure,
W77-06652 1014 2B

The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

A General Model of Microbial Growth and Decomposition in Aquatic Ecosystems,
W77-06684 1014 5C

Mathematical Models in Hydrology.
W77-06708 1014 2A

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

A Model for the Water Regime of a Deciduous Forest with Special Consideration of the Functional Interrelationships Among Meteorological Factors, Soil Water Content and Evapotranspiration, (In German),
W77-06864 1014 2A

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

Calculation of the Leaky Aquifer Function,
W77-07156 1015 2F

A Reconsideration and a Generalization of Lawrance and Fiering Two-Station Models,
W77-07157 1015 2E

Location of Free Surface in Porous Media,
W77-07162 1015 2F

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

Parameterization of Depositional Ice Growth,
W77-07171 1015 2B

Mathematical Modeling of Sedimentation Transients in Sand-Bed Channels,
W77-07354 1015 2J

Simulation of a Series of Daily Areal Mean Rainfalls for a Basin Using Rainfall Observations at a Reference Station Located Outside the Basin,
W77-07356 1015 2B

The Response of an Estuary to the Closure of a Mobile Barrier; Richmond Barrier on the Upper Thames Estuary,
W77-07366 1015 2L

Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

Day Degree Growth Models for Intertidal Oysters,
W77-07376 1015 2L

The Evaluation of Simple and Optimal Decision Rules with Misspecified Welfare Functions,
W77-07439 1015 6B

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

Management Model for Ground Water Development,
W77-07529 1015 4B

Mathematical Models of Strontium-90 Behavior in 'Water-Fresh Water Fish Spawn' System for Particular Cases of Radioactive Contamination of Reservoirs, (In Russian),
W77-07539 1015 5C

Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

Systems Approach and Watershed Models,
W77-07556 1015 2A

The Representation of a Short Period of Experimental Catchment Data by a Linear Stochastic Difference Equation,
W77-07646 1016 2

Some Applications of Stochastic Flow Generation,
W77-07647 1016 2A

Elements of Runoff Periodicity in Tasks of Modelling,
W77-07655 1016 2E

Cyclical Structure of the Hydrological Series and the Nature of Individual Components,
W77-07656 1016 2E

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

A Simple Stochastic Modelling of Hurst's Law,
W77-07666 1016 2E

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

Process Stability of Activity Sludge Processes,
W77-07857 1016 5D

A Note on the Fair Division of Pollution Rights,
W77-08006 1016 6G

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Optimal Operation of Water Resources Systems--II,
W77-08048 1016 4A

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

Methodology for Applying the Finite Element Method to Partially Stratified Estuaries,
W77-08198 1017 2L

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

The AFGWC Snow Cover Analysis Model,
W77-08223 1017 2C

Transference: A Comprehensive Parameter Governing Permeation of Solutes Through Membranes,
W77-08231 1017 3A

Computer Prediction of Stationary States of Membranes from Differential Permeabilities,
W77-08234 1017 3A

Aquifer Modeling Helps Farmers.
W77-08317 1017 2F

A Finite Element Model to Determine the Effect of Land-Use Changes on Flood Hydrographs,
W77-08450 1017 8B

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

Prediction Models of Reaeration Rate for Mountain Creeks,
W77-08501 1017 5G

Simulation of Two-Dimensional Contaminant Transport with Isoparametric Hermitian Finite Elements,
W77-08829 1018 5B

Seepage Under Structure on N Strata of Soil,
W77-08843 1018 2F

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

Analytical Models for the Evaluation of Supplemental Aeration in Texas Estuaries,
W77-08917 1018 5B

A Predictive Phosphorus Model for Lakes - Development and Testing,
W77-08930 1018 5C

A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

A Sediment Transport Model for Straight Alluvial Channels,
W77-09104 1019 2J

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

Future Environmental Quality Management Using Models,
W77-09155 1019 5G

A Review of EPA's Great Lakes Modeling Program,
W77-09157 1019 5B

Comparison of Eutrophication Models,
W77-09159 1019 5C

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

Water Quality Modeling in Texas,
W77-09181 1019 5B

Selecting the Proper Reaeration Coefficient for Use in Water Quality Models,
W77-09184 1019 5G

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

Simulation and Mathematical Modeling of Water Supply Systems - State-of-the-Art,
W77-09200 1019 4A

Future Directions in Urban Water Modeling,
W77-09213 1019 5D

Transform Approach to Solution of Groundwater Flow Equations,
W77-09318 1019 2F

Segmented Population Model of Primary Productivity,
W77-09512 1019 5C

A Screening Model for Flood Control Planning.
W77-09595 1019 4A

Drain Spacing Based on Dynamic Equilibrium,
W77-09698 1020 2F

Mathematical Description of Some Physical Snow Cover Characteristics,
W77-09717 1020 2C

A Mathematical Model for Water Quality in a Coastal Region in Terms of Sea Bottom Waste Deposits (Kaitei osenbusshitsu nado no eikyo o koryo shita kaiiki no suishitsu no yosoku-moderu no kaihatsu ni kansuru kenkyu),
W77-09911 1020 5B

Computer Simulation of Phosphorus Movement Through Soils,
W77-09970 1020 5B

Sensitivity Analysis of the Water Quality for River-Reservoir Systems Model,
W77-09981 1020 5B

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

Method of Analyzing Some Experimental Data on Zooplankton, (In Russian),
W77-10038 1020 2I

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Small Catchment Flood Modelling,
W77-10083 1020 2E

Parameterization of Surface Evaporation Rate for Use in Numerical Modeling,
W77-10111 1021 2D

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

A Mathematical Model for Transient Open Channel Flow: A Water Resource Planning and Management Tool,
W77-10290 1021 2E

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

Probabilistic Models for Multiple and Synthetic Hydrologic Variables,
W77-10301 1021 2A

A Comparison of Numerical Simulation Models for One-Dimensional Infiltration,
W77-10310 1021 2G

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

Application of Mathematical Models in Hydrology and Water Resources Systems.
W77-10419 1021 2A

Application of Some Statistical Methods for the Estimation of Minimum Flow,
W77-10420 1021 2E

Mathematical Modelling of the Return Waters Runoff,
W77-10423 1021 4B

A Hydrological Model with Physically Realistic Parameters,
W77-10428 1021 2A

A Mathematical Model for Urban Runoff,
W77-10434 1021 2A

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

Stochastic Approaches to Water Resources, Volumes I and II,
W77-10439 1021 6A

Transport of Nitrate Ion in Unsteady, Unsaturated Flow in Porous Media,
W77-10595 1021 2G

Solving Stream Pollution Control Problems with Digital Computer and Modelling Techniques,
W77-10596 1021 5B

Great Lakes Eutrophication: The Effect of Point Source Control of Total Phosphorus,
W77-10597 1021 5C

A Production Model for Myriophyllum Spicatum L.,
W77-10731 1021 5C

A Procedure for the Selection of Objective Functions for Hydrologic Simulation Models,
W77-10767 1021 2E

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

Practical Experiences in Formulating a Water Quality Model for the River Neckar,
W77-10812 1022 5B

Dynamic Model for Long-Term Development of Water Resources Management,
W77-10820 1022 6A

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Water Resource Modeling.
W77-10840 1022 6A

Ecological Modeling.
W77-10841 1022 6A

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

Extended Period Simulation of Water Systems--Part A,
W77-10848 1022 4A

Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

Simulation Studies of Flow and Sediment Transport Using a Mathematical Model, Atchafalaya River Basin, Louisiana,
W77-10867 1022 2J

Material Transport Through Porous Media: A Finite-Element Galerkin Model,
W77-10981 1022 2F

Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

Mathematical Modeling of Scour and Deposition,
W77-11207 1022 8B

Flow in Fractured Porous Media,
W77-11213 1022 2F

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

Numerical Model for Saturated-Unsaturated Flow in Deformable Porous Media, 1. Theory,
W77-11223 1022 2F

An Analysis of Flood Levee Reliability,
W77-11224 1022 4A

Estimating the Effective Capillary Pressure in the Green and Ampt Infiltration Equation,
W77-11227 1022 2G

The Cequeau Model: Description and Examples of Its Use in Problems Related to Water Resource Management,
W77-11239 1022 2A

Correlation Constraints for Generating Processes,
W77-11385 1022 2A

Prediction Models for Monthly Runoff,
W77-11437 1022 4A

Conceptual Model for Activated Sludge Processes,
W77-11485 1022 5D

Mathematical Modelling of the Mineralization of River Systems,
W77-11570 1023 5B

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Detroit and St. Clair River Transient Models,
W77-11659 1023 6A

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

Soil Water Modeling II: On Sensitivity to Finite Difference Grid Spacing,
W77-11795 1023 2G

Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

A Numerical Simulation of Warm Fog Dissipation by Electrically Enhanced Coalescence: Part II. Charged Drop Seeding,
W77-11828 1023 2B

Power Plants and Plankton,
W77-12039 1023 5C

Short Course Proceedings - Applications of Stormwater Management Models, 1976,
W77-12074 1023 6A

Digital Simulation of a Drainage Basin,
W77-12082 1023 2A

Designing Conceptual Catchment Models for Automatic Fitting Methods,
W77-12084 1023 2A

A Swampland Model,
W77-12085 1023 2E

A Multiple Input System Model for the Hydrological Basin,
W77-12089 1023 2A

Rainfall-Discharge Transformation Models May be Divided Into Two Catagories (Les Modeles Determinister De Transformation Des Precipitations En Debit),
W77-12090 1023 2A

The Model of the Water Balance and Nutrient Uptake as a Basis for Hydrological, Agro-Hydrological and Other Projects,
W77-12091 1023 2A

Mathematical Model of Spring Runoff Formation,
W77-12101 1023 2A

Mathematical Model of the Hydrometeorological Regime Formation of a River Basin,
W77-12102 1023 2A

Mathematical Modelling of the Formation of River Runoff in Mountain Drainage Basins,
W77-12103 1023 2A

Simulating Overland Flow on Hillslopes with a Kinematic Cascade,
W77-12108 1023 2A

A Kinematic Reference Frame for Estuaries of One Dimension,
W77-12109 1023 5B

Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

A Mathematical Model for Simulating the Temperature Structure of Stratified Reservoirs and Its Use in Reservoir Outlet Design,
W77-12114 1023 5B

Simulation Model for Nutrient Uptake from Soil by a Growing Plant Root System,
W77-12119 1023 2G

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

Activated Sludge Process Design,
W77-12407 1024 5D

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Performance of Storm Drainage Simulation Models,
W77-12411 1024 5D

Descriptive Water Quality (Dispersion) Model for the Danube Section Between Szob and Budapest (A Duna, Szob es Budapest kozotti vonatkozo, leiro jellegu visminosegi (diszperzios) modell),
W77-12412 1024 5B

Storm Water Management Model: Level I - Preliminary Screening Procedures,
W77-12476 1024 5B

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Role of Models in Urban Stormwater Management Planning,
W77-12491 1024 5G

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

Two-Phase, Two-Dimensional simulation of a Geothermal Reservoir,
W77-12674 1024 2F

Flow Dynamics and Sediment Movement in Lockwoods Folly Inlet, North Carolina,
W77-12913 1024 2L

The MIT/Marine Industry Collegium Opportunity Brief No. 8. Computer Models for Environmental Engineering and Research in Near-Coastal Environments.
W77-12916 1024 2L

MATHEMATICAL SMOOTHING

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

MATHEMATICAL STUDIES

Iterative Method of Determining Aquifer Constants,
W77-00555 1002 2B

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

A Concise Method for Analyzing the Ice-Melting Performance of a Heated Disc,
W77-02470 1005 2C

Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

Hydrodynamic Forces on Multiple Circular Cylinders,
W77-03081 1007 8B

On the Validity of the Theory of Flow in Saturated Swelling Materials,
W77-03280 1007 2G

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

The Two-Axis Method: A New Method to Calculate Average Precipitation Over A Basin,
W77-03755 1008 2B

On the Description of the Hydrographic State and the Circulation in the Baltic Deep Water,
W77-04006 1008 2L

Symmetric Finite-Amplitude Rotational Water Waves,
W77-04266 1009 2L

Infiltration Analysis and Perturbation Methods 2. Horizontal Absorption,
W77-04750 1010 2G

Infiltration Analysis and Perturbation Methods 3. Vertical Infiltration,
W77-04751 1010 2G

A Comparison of Techniques for Solving the Diffusion Equation with an Exponential Diffusivity,
W77-05162 1011 2G

Soil Water Regimes Near Porous Cup Water Samplers,
W77-05964 1012 2G

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

Spectral Analysis of the Structure of Hydrological Series,
W77-07653 1016 2E

On Deterministic Components in Natural Streamflow,
W77-07658 1016 2E

New Forms of Correlation Relationships Between Positive Quantities Applied in Hydrology,
W77-07659 1016 2A

Finite Element Solution of the Two-Dimensional Unsaturated Flow Equation,
W77-08923 1018 2G

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

Application of Dynamic Programming to Model Tri-Dimensional Flow in Porous Media (Application de la Programation Dynamique aux Modeles Tridemensionnels de Calcul des Ecoulements dans les Milieux Poreux),
W77-10429 1021 2F

Structure of Natural Hydrologic Time Processes,
W77-10440 1021 2A

Methods for the Evaluation of the Results of the Self-Control-Measurements Carried Out By the Sewage Treatment Plant Operators (Verfahren zur Auswertung der Betriebsergebnisse von Klaerwerken),
W77-11734 1023 5A

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

The Effect of pH on the Population Growth of Three Species of Duckweed: Spirodela oligorrhiza, Lemna minor and Wollfia arrhiza,
W77-12211 1023 5C

A Model to Predict Concentration and Head-Loss Profiles in Filtration,
W77-12406 1024 5D

MATHEMATICL MODELS
Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

MATRIC POTENTIAL
A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

MATRICES (MATHEMATICS)
Extended Period Simulation of Water Systems--Part A,
W77-10848 1022 4A

MATRIX CONDUCTION
Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

MATRIX METHOD
Environmental Impacts of Land use Change,
W77-05922 1012 6G

MAUMEE RIVER BASIN (IND)
Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

MAUMEE RIVER BASIN (OHIO-IND-MICH)
Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

MAUMEE RIVER (OHIO)
Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

MAXEY-EAKIN METHOD
Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

MAXIMUM PERMISSIBLE CONCENTRATION (PESTICIDES)
Determination of Estimated Maximum Permissible and Maximum Residual Concentrations of Pesticides in Environmental Objects, Based on the Principles of Complex (Integral) Standardization, (In Russian),
W77-01575 1004 5G

MAXIMUM PROBABLE FLOOD
Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Flood Plain Information: Big and Little Fossil Creeks, Fort Worth, Texas.
W77-09364 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

Flood Plain Information: Little Dry Fork, Love Branch, Burgher Branch, City of Rolla, Missouri.
W77-09372 1019 4A

Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

Maximum Floodflows in the Conterminous United States,
W77-12156 1023 7C

MAXIMUM PROBABLE FLOODS
Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

MAYENNE RIVER (FRANCE)
Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

MAYFLIES
The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

Survival of Mayfly Larvae Under Mine Acid Conditions,
W77-07128 1015 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

On the Aquatic Insect Communities in Shore Zones and Influents as Well as Effluents of Lakes in Shinshu, (In Japanese),
W77-10949 1022 2H

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

MCCALL GLACIER (ALASKA)
Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

MCGRATH CREEK (TX)
Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

MCNARY DAM
Passage of Juvenile Fish Through Orifices in Gatewells of Turbine Intakes at McNary Dam,
W77-06021 1012 8I

MCNARY SPAWNING CHANNELS
Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

MCSHAN FORMATION (MISS)
The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

MEADOW PLANTS
Aspects of the Daily and Seasonal Course of Transpiration Intensity in Meadow Plants, (In Russian),
W77-08709 1018 2D

MEADOWBROOK WATERSHED (NY)
Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

MEADOWS
Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

MEAN ANNUAL DIVERSITY
The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

MEAN CONDITION FACTOR
Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

MEANDER LAKE (MINN)
The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-03375 1007 5B

MEANDERS
Tidal Boundaries in Florida,
W77-01093 1003 6E

Geometry of River Meanders,
W77-01340 1003 2E

Transverse Dispersion in Meandering Channels,
W77-03644 1008 2E

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

Properties of Channel Wandering,
W77-06305 1013 2E

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

Second Report of the Special Master in the Case of Utah v United States (Concerning Boundaries of Inland Bodies of Water and the Nature of Meander Lines).
W77-12895 1024 6E

MEASUREMENT
Float Calibration in Integrated-Float Techniques,
W77-00088 1001 7B

Simple Method Measures Suspended Solids,
W77-00596 1002 5A

Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

Measurement of Urban Runoff Petroleum,
W77-00678 1002 5B

Oceanographic Apparatus,
W77-01214 1003 2L

Organic Matter in Atmospheric Precipitation in the Voronezh Region, (In Russian),
W77-01249 1003 5B

A New Method for the Determination of Nitrates in Drinking Water,
W77-01278 1003 5A

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Predicting a Bioconcentration Potential of Organic Chemicals in Fish from Partition Coefficients,
W77-01312 1003 5C

Calculation of Partition Coefficients Useful in the Evaluation of the Relative Hazards of Various Chemicals in the Environment,
W77-01322 1003 5C

Waves in Coastal Waters Off Mangalore; Pt. I: Distribution of Wave Characteristics,
W77-01330 1003 2L

Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

Monitoring the Behaviour of Rock Tunnels During Construction,
W77-01475 1003 8G

Prospects of Hydrometry in the Light of Modern Technology,
W77-01519 1003 7B

Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

Water Pollution Monitor,
W77-01722 1004 5A

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Relationships between Zooplankton Displacement Volume, Wet Weight, Dry Weight, and Carbon,
W77-01790 1004 5A

Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

Measurements of Acoustic Properties of Hard-Pack Snow,
W77-02462 1005 2C

The Hailpad Calibration for Italian Hail Damage Documentation,
W77-02486 1005 2B

The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

Problems in the Monitoring of Biomass,
W77-02818 1006 5A

A Review of Hail-Measuring Instruments,
W77-03101 1007 2B

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

A Cine-Camera Technique for Process Measurement on a Ridge and Runnel Beach,
W77-03325 1007 2L

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

Suspended Solids and Velocity Distributions in the Ottawa River,
W77-03655 1008 2J

A Method for the Automatic Measurement of Wave Frequency,
W77-03981 1008 2L

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

Segmental Orifices with Shunt Meters to Totalize Pipeline Flow,
W77-04269 1009 8B

Light Extinction Measurements in the Experimental Lakes Area--1975 Data,
W77-04862 1010 5A

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Measurement and Forms of Nitrogen and Phosphorous,
W77-05169 1011 5A

Allowance for the Variability of Discharges in Computations of the Dilution of Waste Waters in Rivers,
W77-05234 1011 5B

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

A Universal Calibration Equation for Price Meters and Similar Instruments,
W77-06943 1014 7B

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

Acoustic Measurement of Sediment Transport,
W77-07338 1015 2J

Pigment Cycle in a North German Lake,
W77-07459 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

How to Determine Waste Water Flow,
W77-07881 1016 5F

Automatic Analysis Contributes to Waste Water Treatment Efficiency,
W77-07909 1016 5A

Microbial ATP Studies,
W77-07978 1016 5C

Sedimentation: Measurements in Experimental Enclosures,
W77-07990 1016 5C

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

The Measurement of Rainfall at Ground Level,
W77-08061 1016 2B

Measurement of Flash Floods in the United States--State of the Art,
W77-08161 1017 2E

A Methodology for Measuring Flash Floods (Methodologie Pour La Mesure Des Crues Brutales),
W77-08249 1017 2E

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Suspended Solids Measurement Gives Improved Control,
W77-08568 1017 5A

Reliable pH Measurement When Effluent Conditions Get Tough,
W77-08592 1017 5A

NPDES Permits and Water Analyses.
W77-08953 1018 5G

Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

An Energy Balance for Algal Populations in Light-Limiting Conditions,
W77-09609 1020 5C

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Zeta Potential Measurement,
W77-09908 1020 5A

Water Analysis,
W77-10648 1021 5A

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Operation Control.
W77-11498 1022 5D

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 2. Place Glacier, British Columbia - Summary of Measurements,
W77-12788 1024 2C

Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 3. Ram River Glacier, Alberta - Summary of Measurements,
W77-12789 1024 2C

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W77-12790 1024 2C

The Use of Calibrated Paper Filters for Measuring to Total Soil Moisture Potential, (In Russian),
W77-12998 1024 2G

MEASUREMENTS
Water Resources Research Program - Nearshore Currents and Water Temperatures in Southwestern Lake Michigan, (June-December 1975),
W77-11131 1022 5A

MEASURING INSTRUMENTS
Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

MEAT
A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

MEAT PACKING PLANT WASTES
Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

MEAT PRODUCTS INDUSTRY
National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

MEAT PRODUCTS PLANTS
Meat and Poultry Products Plant Liquid Effluent Regulations and Guidelines.
W77-12774 1024 5G

MECHANIC FALLS (ME)
Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

MECHANICAL AGITATION
Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

MECHANICAL CONTROL
Head Gates; Powers of State Engineer.
W77-03507 1007 6E

Wind Control of Algae Growth in Eutrophic Lakes,
W77-07497 1015 5G

MECHANICAL EQUIPMENT
Tests of Oil Recovery Devices in Broken Ice Fields. Phase I,
W77-08915 1018 5G

Waste Water Treatment Apparatus by Biological Action,
W77-12943 1024 5D

MECHANICAL PROPERTIES
The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads,
W77-02460 1005 2C

Superhard Materials Promise Extended Wear Capability,
W77-04283 1009 8G

Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

MECHANICAL STRESS (FISH)
Resistance of Plaice Eggs to Mechanical Stress and Light,
W77-04553 1009 5C

MECHANICAL TREATMENT (WASTES)
Comparative Assessment of the Effectiveness of Certain Methods Making Industrial Effluents Noncarcinogenic, (In Russian),
W77-03488 1007 5D

MECHANICALLY-GENERATED WAVES
Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

MEDAKA
The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

MEDIAN LETHAL CONCENTRATIONS
Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

MEDICAL UNIT SELF-CONTAINED TRASPORTABLE
Control and Monitor Instrumentation for Must Water Processing Element, Final Report,
W77-02878 1006 5A

MEDICINE BOW MOUNTAINS (WYO)
The Movement of Snow-Water Through Small Plant-Soil Systems in the Medicine Bow Mountains, Wyoming,
W77-01812 1004 2D

MEDITERRANEAN CLIMATE
The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

MEDITERRANEAN COAST (ISRAEL)
Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-06782 1014 5C

MEDITERRANEAN (GULF OF MARSEILLES)
The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

MEDITERRANEAN OUTFLOW REGION
Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

MEDITERRANEAN SEA
Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Study of the Benthic Population of Deep Silts from the Gaspe Strait (Gulf of the Saint Lawrence), (In French),
W77-12466 1024 2L

MEDITERRANEAN SEA (ISRAEL)
Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

MEDWAY ESTUARY (ENG)
Heavy Metals in Macroinvertebrates and Fish from the Lower Medway Estuary, Kent,
W77-06790 1014 5C

MEETINGS
Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

MEGALOPTERA
The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

MEIOFAUNA
Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

MEJILLONES BAY (CHILE)
Diet of Hippoglossina Macrops (Steindachner) in Mejillones (Pisces, Bothidae), (IN Spanish),
W77-00502 1001 2L

MEKONG RIVER
Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

MELBOURNE (AUSTRALIA)
Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

MELBOURNE (VIC)
Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

Efficiency in Industrial, Municipal and Domestic Water Use,
W77-10375 1021 6D

MELONS
A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects for Diversification,
W77-11628 1023 4D

MELOSIRA GRANULATA
Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

MELT WATER
The Movement of Snow-Water Through Small Plant-Soil Systems in the Medicine Bow Mountains, Wyoming,
W77-01812 1004 2D

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Water Flow in Glaciers: Jokulhlaups, Tunnels and Veins,
W77-02458 1005 2C

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

MELTING
A Concise Method for Analyzing the Ice-Melting Performance of a Heated Disc,
W77-02470 1005 2C

Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

An Experimental and Theoretical Study of the Turbulent and Laminar Convection Generated Under a Horizontal Ice Sheet Floating on Warm Salty Water,
W77-07773 1016 2C

Melting Rates of Various Size Hailstones in a Large Vertical Wind Tunnel,
W77-10307 1021 3B

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

Observation of Oscillatory Ice States in a Simple Convection Experiment,
W77-10656 1021 2C

MEMBRANE FILTER
A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

MEMBRANE FILTER METHOD
An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

MEMBRANE FILTER METHODS
Membrane Filter Method for Recovery of Fecal Coliforms in Chlorinated Sewage Effluents,
W77-04713 1010 5D

MEMBRANE FILTER TECHNIQUE
Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

MEMBRANE FILTER TECHNIQUES
Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

MEMBRANE FILTERS
Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

Use of New Type of Membrane Filters in Isolating Salmonella from Water of Surface Reservoirs, (In Russian),
W77-04082 1008 5A

Note on the Trace Metal Content of Membrane Filters,
W77-10383 1021 5F

MEMBRANE PROCESSES
Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

One Pass Seawater Desalting RO Pilot Plant Evaluation,
W77-03076 1007 3A

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Sanitary-Chemical Evaluation of Cellulose Acetate Membranes Used for Desalination of Sea Water, (In Russian),
W77-04596 1009 3A

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Membrane Separation Equipment,
W77-04963 1010 3A

Recovery of Chromates by Membrane,
W77-05661 1012 5D

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

Ultrafiltration Oil Reclamation Process,
W77-07212 1015 5D

Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

Transference: A Comprehensive Parameter Governing Permeation of Solutes Through Membranes,
W77-08231 1017 3A

Sorption and Flow of Carbon Dioxide and Some Hydrocarbons in a Microporous Carbon Membrane,
W77-08232 1017 5A

Production of Energy From Concentrated Brines by Pressure-Retarded Osmosis, 1. Preliminary Technical and Economic Correlations,
W77-08233 1017 3A

Computer Prediction of Stationary States of Membranes from Differential Permeabilities,
W77-08234 1017 3A

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Regular Copolyamides as Desalination Membranes,
W77-09806 1020 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-09817 1020 3A

Application of Membrane Processes,
W77-09929 1020 3A

Ultrafiltration--The Current State of the Art,
W77-10338 1021 5D

Physical and Chemical Methods,
W77-10645 1021 5D

Ion-Permselective Membranes,
W77-11075 1022 3A

The Role of Membrane Methods in the Desalination of Brackish Water,
W77-11076 1022 3A

Separation of Oil in Bilge Water by Semipermeable Membrane,
W77-11909 1023 5G

Thin Cell Electromembrane Separator,
W77-11917 1023 3A

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

Status of Sea Water Reverse Osmosis Membrane Process Technology,
W77-12571 1024 3A

History, Status and Future of Distillation Processes,
W77-12631 1024 3A

Membrane Filter System,
W77-12695 1024 5F

Membrane Cartridge with Improved Central Collection Tube,
W77-12696 1024 5F

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

MEMBRANE SCALING
Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

MEMBRANES
Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Reverse Osmosis for the Treatment of Metal Waste Solutions,
W77-03610 1008 5D

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

Sanitary-Chemical Evaluation of Cellulose Acetate Membranes Used for Desalination of Sea Water, (In Russian),
W77-04596 1009 3A

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Membrane Filter Method for Recovery of Fecal Coliforms in Chlorinated Sewage Effluents,
W77-04713 1010 5D

Infiltration Through Soil with a Slightly Permeable Buried Membrane,
W77-04887 1010 2G

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis

on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Sorption and Flow of Carbon Dioxide and Some Hydrocarbons in a Microporous Carbon Membrane,
W77-08232 1017 5A

Computer Prediction of Stationary States of Membranes from Differential Permeabilities,
W77-08234 1017 3A

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

Regular Copolyamides as Desalination Membranes,
W77-09806 1020 3A

Evaluation of Cellulose Acetate Membranes for Reverse Osmosis Separation,
W77-09863 1020 5D

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Applicability of Commercial Reverse Osmosis Units for the Quality Improvement of Brackish Water Sources in the Southern Arava,
W77-11073 1022 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-11918 1023 3A

MEMPHIS AREA (TENN)

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

MEMPHIS (TENN)

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

MENAI STRAITS

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

MENHADEN

Movements of Tagged Juvenile Menhaden (Brevoortia Patronus) in the Gulf of Mexico,
W77-02066 1004 8I

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Accumulation and Retention of Dietary 14C-DDT by Atlantic Menhaden,
W77-11297 1022 5C

MENIDIA MENIDIA

- Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

MENLO PARK (CALIF)

Composition of Selected Rain Samples Collected at Menlo Park, California in 1971,
W77-05754 1012 7C

MENOMONEE RIVER BASIN

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

MERCAPTOBENZOTHIAZOLES

Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

MERCENARIA MERCENARIA

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

MERCURIAL TRANSFORMATION

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

MERCURIC CHLORIDE

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

MERCURY

Behavior of Mercury in Suspended Solids and Bottom Sediments,
W77-00007 1001 5C

Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

Distribution and Bioaccumulation of Mercury in Biotic and Abiotic Compartments of a Contaminated River-Reservoir System,
W77-01297 1003 5C

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

The Spectrometric Determination of Mercury (at 253,65 nm) In Natural Water - A Brief Literature Survey,
W77-01442 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Chromium and Mercury in a Soil After 80 Years of Treatment with Urban Sewage Water, (In German),
W77-01568 1004 2K

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

The Mercury Content of Mollusks in the Pontevedra Estuary as a Measure of its Degree of Mercury Contamination, (In Spanish),
W77-02226 1005 5A

Emission Spectrometic Element Determination in the Nano- and Picogram Region After Vaporization of the Elements with Gas Plasmas Induced with Microwaves: 1. Extremely Sensitive Mercury Determination in Aqueous Solutions, Air Organic and Inorganic Materices, (In German),
W77-02229 1005 5A

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Extraction-Photometric Determination of Mercury in Soil and Water, (In Russian),
W77-02272 1005 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Determination of Small Amounts of Mercury,
W77-02729 1006 5A

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Review of Environmental Control of Mercury in Japan,
W77-02761 1006 5G

A Method for the Determination of Mercury in Sediments by the Automated Cold Vapor Atomic Absorption Technique after Digestion,
W77-02811 1006 5A

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

Mercury Transport by Bed Sediment Movements,
W77-03647 1008 5B

Microbial Dealings with Heavy Metals,
W77-03666 1008 5C

Mercury and Mercurial Resistance Determined by Plasmids in Escherichia Coli and Pseudomonas Aeruginosa,
W77-03667 1008 5C

Transport and Distribution of Mercury in Sediments,
W77-03669 1008 5B

Bacterial Mobilization of Mercury in Chesapeake Bay,
W77-03670 1008 5C

Interaction Between Aquatic Plants and River Bed Sediments in the Uptake of Mercury from Flowing Water,
W77-03671 1008 5C

The Form of Mercury in Freshwater Fish,
W77-03673 1008 5A

Origin and Fate of Mercury Compounds in Fish,
W77-03674 1008 5B

The Ways of Transport of Mercury to Fish,
W77-03675 1008 5B

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

The Ottawa River Project,
W77-03683 1008 5B

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

Long-Term Effects of Methylmercuric Chloride on Three Generations of Brook Trout: Toxicity Accumulation, Distribution and Elimination,
W77-04031 1008 5C

Distribution of Heavy Metals in Tissues of the Common Seal,
W77-04059 1008 5C

Mercury in Tissues of Mussel Off Southern California,
W77-04060 1008 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Mercury in the Surficial Sediments of Lake Erie,
W77-05628 1012 5B

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Study of a Human Population Exposed to Methylmercury from Fish Consumption, (In French),
W77-05688 1012 5C

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

Monsanto Company V Illinois Pollution Control Board (Requirements for Petitioning for Permanent Variance from Water Pollution Regulations Pertaining to Mercury Discharge into Public Sewer System).
W77-06068 1012 6E

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

Mercury Levels in the Rivers of Western Canada 1970-1976.
W77-06363 1013 5A

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

The Accumulation of Mercury in Fishes Reared in the Sea Water Contaminated by Suspended Solids Containing Mercury, (In Japanese),
W77-06404 1013 5C

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

A Preliminary Survey of Mercury in Fish from Bombay and Thana Environment,
W77-06785 1014 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Aquatic Organism Contamination by Mercury Residues in the Coatzacoalcos River Estuary, Mexico,
W77-07394 1015 5C

Mercury in Water, a Bibliography, Volume 3,
W77-07605 1016 5A

Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Effect of Metals on Photosynthesis of Marine Phytoplankton, (In Russian),
W77-08160 1017 5C

A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-08697 1018 5C

Dose-Dependent Effects of Methylmercury on Limb Regeneration of Newts (Triturus Viridescens),
W77-08699 1018 5C

Methylmercury Induced Injury of Single Barnacle Muscle Fibers,
W77-08700 1018 5C

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Studies on Mercury Content in Selected Fish Species from Pomeranian Guif and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: I Accumulation of Mercury in the Organs, (In French),
W77-09320 1019 5C

Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: II. Effect on the Regulation of Osmolarity, (In French),
W77-09321 1019 5C

Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

The Role of Humic Acids in the Uptake and Release of Mercury by Freshwater Sediments,
W77-09615 1020 5B

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Mercury Detection Simplified.
W77-10084 1020 5A

Mercury in Waterways that Drain into the Wash, in Eastern England,
W77-10152 1021 5B

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Aquatic Environmental Quality: Problems and Proposals,
W77-11421 1022 5A

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

The Accumulation of Mercury by the Thornback Ray, Raja Clavata L.,
W77-11507 1023 5C

The Accumulation of Mercury from Food by the Plaice, Pleuronectes Platessa L.,
W77-11508 1023 5C

Mercury in Bottom Sediments of Rietvlei Reservoir,
W77-11512 1023 5B

Polyamine Synthesis in Liver and Kidney of Flounder in Response to Methylmercury,
W77-11518 1023 5C

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

Removal of Mercury from Aqueous Solutions Employing Naval Stores Products,
W77-11916 1023 5D

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Physiological Characteristics of Mercury Uptake by Two Estuarine Species,
W77-12007 1023 5B

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

Mercury Levels in Freshwater Fish of the State of South Carolina,
W77-12223 1023 5A

Mercury in the Seston of the San Francisco Bay Estuary,
W77-12238 1023 5C

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

Stream Pollution by an Organomercury Compound,
W77-12644 1024 5B

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

MERCURY BIOACCUMULATION
Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

MERCURY COMPOUNDS
Behavior of Mercury in Suspended Solids and Bottom Sediments,
W77-00007 1001 5C

MERCURY EXCHANGE
Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

MERCURY IONS
Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

MERCURY ISOLATION
Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

MERCURY METHYLATION
The Role of Tin in Bacterial Methylation of Mercury,
W77-03668 1008 5B

MERCURY ORGANIC COMPOUNDS
Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

MERCURY POISONING CHRONIC SYMPTOMS
A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

MERCURY RELEASE
Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

MERCURY UPTAKE
Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

MERISTIC VARIATIONS
Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

MERMITHIDAE
Character of Interrelations Between Chironomidae and Their Parasites, Mermithidae, (In Russian),
W77-01596 1004 5C

MEROMICTIC LAKES
Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

MEROMIXIS
Meromictic Mechanisms in a Coastal Lake, (In Finnish),
W77-04071 1008 5C

Meromixis in Ulmener Maar (Germany).
W77-07520 1015 5C

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

MERRI CREEK (VIC)
The Merri Creek Flood, 15-16 May 1974; Cities of Northcote Brunswick (Australia),
W77-01069 1003 2E

MERRIMACK-NASHUA RIVER BASIN
Water Pollution Control Act of 1972, Regional Impacts, Merrimack-Nashua River Basin.
W77-04310 1009 5G

MERRIMACK RIVER (MA)
Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

MERRIMACK RIVER (NH)
Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

MERSEY RIVER
Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

MESA GEOTHERMAL ANOMALY (CALIF)
A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

MESAVERDE SANDSTONE
Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

MESENCHYMAL TUMORS
Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

MESITYL OXIDE
Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

MESONETWORKS
Cloud Interaction and the Formation of the 15 June 1973 Tornado in the FACE Mesonetwork,
W77-01700 1004 2B

MESOPHILIC SYSTEM
Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

MESOPHYL
Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

MESOSCALE
Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

MESOSCALE DISTURBANCES
Control of Mesoscale Disturbance by Synoptic Conditions,
W77-05138 1011 2H

MESOTHROPHY
Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Lakes Sorell and Crescent - A Tasmanian Paradox,
W77-11534 1023 5C

MESOTROPHY
Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Primary Production of the Phytoplankton of the Uchinskoye Reservoir, (In Russian),
W77-06332 1013 5C

On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

Characteristics of the Zooplankton of the Lower Reaches of the Irgiz and Turgay Rivers, (In Russian),
W77-09940 1020 5C

MESQUITE
Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

Water Requirements for Mesquite (Prosopis Juliflora),
W77-10770 1021 2D

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

META-SYSTOX
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

METABOLIC PATHWAYS
Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

METABOLISM
The Growth-Promoting Activity of Some Algal Metabolites on Scenedesmus Acutus,
W77-00190 1001 5C

Thermal Disturbances of Wheat Water Metabolism in Models of Natural Meteorological Complexes, (In Russian),
W77-00755 1002 3F

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

Mixed Function Monooxygenase of Fish as an Indicator of Pollution of Aquatic Environment by Industrial Effluent,
W77-01065 1002 5C

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

The Effect of Water with Different Mineralization Levels on the Animal Body, (In Russian),
W77-02270 1005 5C

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

Experimental, Clinical and Physiological Data for Substantiating the Lower Limits of the Mineralization of Desalinated Drinking Water, (In Russian),
W77-02895 1006 5C

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

The Effect of Dissolved Petroleum Products on Some of the Aspects of Carbohydrate Metabolism in Fishes and Invertebrates,
W77-04030 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Mineral Metabolism During the Ontogenesis of Rainbow Trout (Salmo Gairdneri),
W77-04039 1008 5C

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

The Toxic Effects of Trinitrotoluenc (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Food and Feeding of Larval Redfish in the Gulf of Maine,
W77-05844 1012 2L

Food of the Larval Anchoveta Engraulis Ringens J.,
W77-05845 1012 2L

Chemical Changes During Growth and Starvation of Herring Larvae,
W77-05847 1012 5C

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and

Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Effect of Two Rearing Conditions on Growth and Body Composition in Carp (Cyprinus Carpio L), (Influence de Deux Modes d'Elevage sur la Croissance et la Composition Corporelle de la Carpe Commune),
W77-06769 1014 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W77-07380 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

Aspects of Phosphate Utilization by Blue-Green Algae,
W77-09505 1019 5C

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Ion Stimulation of Metabolism in Fish Adapting to Growth in Warm Water, (In Ukranian),
W77-10971 1022 5C

On the Role of Leaf Water in Regulating Metabolism,
W77-11070 1022 2I

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

Experimental Modeling and Mathematical Description of Radionuclide Metabolism in the System 'Aqueous Medium-Hydrobionts', (In Russian),
W77-12993 1024 5B

METACERCARIAE
Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

METACRYLATES
Experimental Verification of the Maximum Permissible Concentration on Methyl and Butyl Esters of Methacrylic Acid in Water Bodies, (In Russian),
W77-06299 1013 5C

METAGAME ANALYSIS
Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

METAL
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

METAL COMPLEXES
Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

METAL-COMPLEXING PROTEINS
Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

METAL CYANIDE COMPLEX COMPOUNDS
Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

METAL FINISHING INDUSTRY
Proceedings Technology Transfer Seminar on Waste Handling, Disposal and Recovery in the Metal Finishing Industry, November 12-13, 1975, Toronto, Ontario.
W77-06950 1014 5D

METAL FINISHING INDUSTRY WASTES
Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

METAL FINISHING PLANTS
Modification of the Traditional Sequence for the Treatment of Wastewaters from Metal Finishing Installations,
W77-02762 1006 5D

METAL FINISHING WASTES
Large-Scale Reverse Osmosis Processing of Metal Finishing Rinse Waters,
W77-07207 1015 5D

METAL ION COAGULANTS
Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

METAL IONS
Effects of Potassium on Adult Asiatic Clams, Corbicula Manilensis,
W77-03119 1007 5C

Dynamics of Interaction of Cations and Fulvic Acid,
W77-03662 1008 2K

Ultrastructural Localization of Lead in Stigeoclonium Tenue (Chlorophycea, Ulotrichales) as Demonstrated by Cytochemical and X-ray Microanalysis,
W77-05230 1011 5C

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

METAL PIPES
Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

METAL PROCESSING WASTES
Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

METAL RECOVERY
Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

METAL REQUIREMENTS
Mineral Metabolism During the Ontogenesis of Rainbow Trout (Salmo Gairdneri),
W77-04039 1008 5C

METAL-TOLERANT ISOPOD
Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

METAL TRANSPORT
Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

Metals in the Water, Sediments and Biota of the Haw and New Hope Rivers, North Carolina,
W77-12254 1024 5A

METAL UPTAKE
Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

METALIMNION
Movement of Rainbow Trout Across a Metalimnion Deficient in Dissolved Oxygen,
W77-06417 1013 5C

METALLURGY
Metallurgical Developments Aid Bits, Tool Joints,
W77-12670 1024 8G

METALS
Complexation of Trace Metals by Ethylenediaminetetraacetic Acid (EDTA) in Natural Waters,
W77-00604 1002 5A

Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

A Polarographic Method for the Determination of Metals in Waste Waters, (In Italian),
W77-01026 1002 5A

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

Trace Metal Detection in Aquatic Environments by Activation Analysis of Naiad Shells,
W77-01820 1004 5A

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Steel-Plant Stackgas Cleanup: An Attractive Role for Magnetism,
W77-01996 1004 5D

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

Modification of the Traditional Sequence for the Treatment of Wastewaters from Metal Finishing Installations,
W77-02762 1006 5D

The Potential Trace Metal Contamination of Water Resources through the Disposal of Fly Ash,
W77-02873 1006 5B

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Organic Phosphorus in Lakes,
W77-03210 1007 5C

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

Atmospheric Trace Metals Over the New York Bight,
W77-04195 1009 5B

Superhard Materials Promise Extended Wear Capability,
W77-04283 1009 8G

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Microbial Alkylation of Metals,
W77-04859 1010 5C

Sediment Study, Lake George, New York: Trace Metals (Fe, Mn, Cu, Cr, Zn) Organic Carbon, Man's Activities,
W77-05231 1011 5C

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Industry and the Environment,
W77-05508 1011 5G

Application of Ion Exchange Resins in the Purification of Plating Sewage. 3. Transformation of Ion Exchange Resins During their Exploitation (Primenenie ionoobmennykh smol dlya ochistki stochnykh vod gal' vanicheskikh tsekhov. 3. izmenenie svoistv ionitov v khode ekspluatatsii),
W77-05521 1011 5D

Chemical Treatment of Water from a Surface Treatment Plant (Epuration par voie chimique des eaux residuaires d'un atelier de traitment de surface),
W77-05522 1011 5D

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Waste Treatment System Cuts Water Use by 2/3.
W77-06217 1013 5D

Asbestos in Water: Mining and Processing Effluent Treatment,
W77-06218 1013 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-06255 1013 5C

The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

Partial Extraction of Metals from Aquatic Sediments,
W77-06781 1014 5A

Laboratory Studies on the Effect of Metals on Oxygen Uptake by Sewage Sludge in Brackish Water,
W77-06788 1014 5C

Proceedings Technology Transfer Seminar on Waste Handling, Disposal and Recovery in the Metal Finishing Industry, November 12-13, 1975, Toronto, Ontario.
W77-06950 1014 5D

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Toxic Waste Disposal,
W77-07209 1015 5G

Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

Experimental Study of Acute Toxicity of Salts of Cobalt, Antimony, Strontium and Silver Crustaceans and Their Larvae and in Some Teleosts, (In French),
W77-07728 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Effects of Trace Elements on Nitrogen Mineralization in Soils,
W77-07864 1016 5B

The Effect of Different Flocculants on the Elimination of Trace Elements and Polycylic Hydrocarbons in the Water Purification Process, (In German),
W77-08256 1017 5D

Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

Development of a Column Chromatography Method for Field of Pre-Concentration of Trace Metals with Application to the Haw-Cape Fear Rivers, N.C.,
W77-08299 1017 5A

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Removing Soluble Metals from Waste Water,
W77-08591 1017 5D

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

'Not One Drop of Effluent'--Hydrochloric Acid Recovery from Spent Pickle Liquor.
W77-09417 1019 5D

Metals in the Aqueous Effluents from Municipal Incinerators and an Incinerator-Residue Processing Plant,
W77-09600 1019 5A

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

Metals in Organisms from Saldanha Bay and Langebaan Lagoon Prior to Industrialization,
W77-10205 1021 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

Transport Phases of Transition Metals in the Amazon and Yukon Rivers,
W77-10328 1021 2J

Metal Finishing Plant Waste Water Purificn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Trace Elements in Wastewater,
W77-10577 1021 5D

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

Palo Alto Sees Golden Glint in Sludge.
W77-11703 1023 5D

Trace Metals in Open Water Disposal of Dredged Material,
W77-11780 1023 5E

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

Physiological Characteristics of Mercury Uptake by Two Estuarine Species,
W77-12007 1023 5B

Effects of Oral Administration of Cadmium on Fish - I. Analytical Results of the Blood and Bones, (In Japanese),
W77-12012 1023 5A

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Solubility and Availability of Cadmium in Cadmium-Sludge Amended Soil,
W77-12144 1023 5B

Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

Model Kumulacji 137CS U Karpia (Cyprinus Carpio L.) a Model of the Cumulation of 137CS in the Carp Cyprinus Carpio L.), (In Polish),
W77-12215 1023 5C

Mercury Levels in Freshwater Fish of the State of South Carolina,
W77-12223 1023 5A

Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

Method and Apparatus for Collecting Fluid Contaminants,
W77-12686 1024 5A

The Short-Term Effects of Lead on Domestic and Wild Animals,
W77-12787 1024 5C

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

METALS

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

Method of Reducing Lead and Acid Waste Contamination in Battery Plant Operation,
W77-12922 1024 5D

The Trace Element Composition of Mine Waters, (In Russian),
W77-12969 1024 5A

METALS RECOVERY

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

METALS REMOVAL

Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

METAMORPHIC ROCKS

Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

METAPENAEUS-MONOCEROS

Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

METARATIONALITY

Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

METAZOA

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

METEOR SATELLITE

Estimate of the Suitability of Television Information from Meteorological Meteor Satellites for Determining Ice Conditions in Lakes and Reservoirs,
W77-03765 1008 2C

METEORIC WATER

Elucidating Salination Mechanisms by Stable Isotope Tracing of Water Sources,
W77-11056 1022 5B

METEOROLOGIC DATA

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

METEOROLOGICAL DATA

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Boundary-Layer Trajectory Estimates Compared with Constant-Volume Balloon Trajectories in the Great Plains,
W77-01701 1004 2B

An Evaluation of Precipitation pH Data from the Washington, DC Area Collected During 1975,
W77-01703 1004 2B

Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

Retransmission of Hydrometric Data in Canada,
W77-02506 1005 7C

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

Economics of Storm Protection,
W77-02672 1006 6F

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

GATE Convection Subprogram Data Center: Shipboard Precipitation Data,
W77-04196 1009 2B

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Oceanographic Observations in the Georgia Bight: Data Report for R.V. EASTWARD Cruises E-3-74 (24-30 April 1974) and E-12-74 (23-31 July 1974),
W77-04835 1010 2L

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Computing Derivatives from Equally Spaced Data,
W77-05437 1011 2B

Simple Formulae for the Estimation of Wet Bulb Temperature and Precipitable Water,
W77-06646 1014 2B

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Portable Automated Mesonet in Operation,
W77-09131 1019 2B

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Autocorrelation Characteristics of Hydrometeorological Data of the United States,
W77-10805 1022 2B

Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Great Lakes Ice Cover, Winter 1975-76,
W77-11054 1022 2C

A Long-Term (1860-1970) Change in the Regime of Barometric Pressure at Jerusalem and Its Relation to Rainfall,
W77-12827 1024 2B

METEOROLOGY

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Meteorological Factors and Air Pollution in Sofia, (In Russian),
W77-01601 1004 5A

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

A Stochastic Point-Process Model for the Occurrence of Major Freezes in Lake Constance,
W77-05242 1011 2C

Flash Floods in the Western Mediterranean (Les Crues Catastrophiques sur la Mediterranee Occidentale),
W77-08245 1017 2E

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

A Hydrometeorological Research Program,
W77-10658 1021 2B

Mathematical Model of the Hydrometeorological Regime Formation of a River Basin,
W77-12102 1023 2A

METES AND BOUNDS
Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

METHACRYLATES
Hygienic Substantiation of the Maximum Permissible Concentration of Tin Tributylmethacrylate in Water Bodies, (In Russian),
W77-03107 1007 5A

METHACRYLIC-ACID
Experimental Verification of the Maximum Permissible Concentration on Methyl and Butyl Esters of Methacrylic Acid in Water Bodies, (In Russian),
W77-06299 1013 5C

METHANE
Utilization of Methane from Sludge Digestion,
W77-00036 1001 5D

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Denitrification of Wastewater Effluents with Methane,
W77-00609 1002 5D

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

Wastewater Plant Does Nicely Without Natural Gas, Thank You,
W77-02363 1005 5D

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Methane From Farm Wastes,
W77-04630 1010 5B

Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Fuel Gas and Electricity from Municipal Sewage,
W77-07065 1014 5D

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

Methane Oxidation in a Eutrophic Canadian Shield Lake,
W77-09608 1020 5C

Energy Recovery in Brewery Industry,
W77-10342 1021 5D

Optimizing Gas Production, Methane Content, and Buffer Capacity in Digester Operation,
W77-10654 1021 5D

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Temperature Limitation of Methanogenesis in Aquatic Sediments,
W77-11422 1022 5C

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

Binary Gas Diffusion of Methane-Nitrogen Through Porous Solids,
W77-12323 1024 2F

Anaerobic Digestion Process,
W77-12954 1024 5D

METHANE BACTERIA
Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

The Eutrophication Implications of Interactions Between Naturally Occurring Particulates and Methane Oxidizing Bacteria,
W77-02536 1005 5C

Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

Temperature Limitation of Methanogenesis in Aquatic Sediments,
W77-11422 1022 5C

METHANE CONTENT
Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

METHANE DETERMINATIONS
An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

METHANE FIXATION
The Eutrophication Implications of Interactions Between Naturally Occurring Particulates and Methane Oxidizing Bacteria,
W77-02536 1005 5C

METHANE FORMATION
Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

METHANE OXIDATION
The Eutrophication Implications of Interactions Between Naturally Occurring Particulates and Methane Oxidizing Bacteria,
W77-02536 1005 5C

Methane Oxidation in a Eutrophic Canadian Shield Lake,
W77-09608 1020 5C

METHANE OXIDIZING BACTERIA
Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

METHANE PRODUCERS
Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

METHANOGENESIS
Temperature Limitation of Methanogenesis in Aquatic Sediments,
W77-11422 1022 5C

METHANOL
Hygienic Study of the Toxic Properties of Methanol-Containing Reclaimed Water, (In Russian),
W77-01602 1004 5C

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

METHANOL FERMENTATION
Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

METHDOLOGY
An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

METHEMOGLOBIN
Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

METHOD OF CHARACTERISTICS
Some Computational Aspects of One- and Two-Dimensional Unsteady Flow Simulation by the Method of Characteristics,
W77-08745 1018 2E

METHOD OF MAXIMUM LIKELIHOOD
The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

METHODOLOGY
Social Impact Assessment: An Overview,
W77-00103 1001 6B

The Use of Stochastic Models in the Interpretation of HIstorical Data From Sewage Treatment Plants,
W77-00121 1001 5D

A Method for Selecting and Evaluating Simulation Games as Educational Tools for Water Resources Planning,
W77-00148 1001 6A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

Decision-Making in Recreational Fisheries Management: an Analysis,
W77-00391 1001 6B

Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

Research for the Development of Guidelines for Conducting and Analyzing an Environmental Water Quality Study to Determine Statistically Meaningful Results,
W77-00677 1002 7B

New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

Resource Inventory Management Planning System (RIMPS). User Manual,
W77-01294 1003 5G

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Design of Surface Water Data Networks for Regional Information,
W77-01885 1004 7A

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

Methods of Dissoled Oxygen Budget Analysis for Assessing Effects of Dredged Material Disposal on Biological Community Metabolism,
W77-03393 1007 5C

Nature Preservation Activity RR Investigation: Part 6. A Modified Method of Measuring the Chemical Oxygen Demand Gives a High Analytical Capacity, (In Swedish),
W77-03589 1007 5A

On Realism and Generality of Bio-Accumulation Models. Towards a General Methodology,
W77-03680 1008 5B

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Investigation into Methods for Developing a Physical Analysis for Evaluating Instream Flow Needs,
W77-04296 1009 2E

Equipment and Techniques for Monitoring the Vertical Distribution of Fish in Shallow Water,
W77-04416 1009 5C

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Methodology and Criteria for Siting Energy Plants in Idaho,
W77-05006 1010 6G

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Minimum Cost Design Using a Pre-Planned Nodal Search Method,
W77-05246 1011 4A

A Review and Analysis of Environmental Impact Assessment Methodologies,
W77-05296 1011 6G

The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

Application of Biological Analysis in Investigations on Polluted Waters, (In Polish),
W77-05662 1012 5A

Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Dialysis Membrane Chambers as a Device for Evaluating Impacts of Pollutants on Plankton Under Natural Conditions,
W77-05899 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

A Diurnally Fluctuating Thermal System for Studying the Effect of Temperature on Aquatic Organisms,
W77-06291 1013 5C

A Method to Determine Personal Values,
W77-06354 1013 6B

Standard Procedures for Biological Evaluation.
W77-06374 1013 5A

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Research Related to Biological Evaluation of Complex Wastes,
W77-06476 1013 5A

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

Climatology for Geographers,
W77-06659 1014 2B

Presenting Trends in Lake Eutrophication,
W77-06693 1014 5C

Mathematical Models in Hydrology.
W77-06708 1014 2A

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-07072 1014 5B

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

The Evaluation of Toxic Effects of Chemicals in Fresh Water by Using Frog Embryos and Larvae,
W77-07132 1015 5C

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

Surber Sampling in Deep Water for Bottom Organisms,
W77-07199 1015 7B

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

Power Plant Site Evaluation: The Case of the Sharon Plant in Israel,
W77-07546 1015 6G

Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

Methodological Problems in Estimating Recreational Demand Functions and Evaluating Recreational Benefits,
W77-08007 1016 6B

Determination of Pyridine in Farm Crops and Fish, (In Russian),
W77-08126 1017 5A

A Methodology for Measuring Flash Floods (Methodologie Pour La Mesure Des Crues Brutales),
W77-08249 1017 2E

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

A Systematic Approach to Regional Water Quality Planning,
W77-09156 1019 5G

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

The Operational Water Quantity Model,
W77-09204 1019 4A

The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Background Information Appendix.
W77-09381 1019 5G

A Method for Sectioning Saturated Soil Cores,
W77-09436 1019 2G

ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

The Importance of Monitoring Change,
W77-09591 1019 5A

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

A Methodology for Comparative Evaluation of Water Quality Indices,
W77-09632 1020 5A

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Water Resources Assessment Methodology (WRAM)--Impact Assessment and Alternative Evaluation,
W77-09985 1020 6G

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

Quantifying Societal Goals: Development of a Weighting Methodology,
W77-10850 1022 6A

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

Miniature Aquarium System for Rearing Small Numbers of Fish Larvae,
W77-11260 1022 7B

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

Chamber for Holding Aquatic Microinvertebrates During Toxicity Tests in a Flow-Through Diluter System,
W77-12185 1023 5A

Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

Intensive Breeding of Carp in a Closed Water Circulation System, Intensivhaltung von Karpfen im geschlossenen Kreislaufsystem,
W77-12226 1023 5G

Aquatic Natural Areas in Idaho,
W77-12269 1024 4A

Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Concept and Design: Controlled Ecosystem Pollution Experiment,
W77-12854 1024 5A

Thin-Layer Chromatographic Determination of Cadmium in Water and Biological Media, (In Russian),
W77-12970 1024 5A

An Express Method for Establishing Minimum Permissible Concentrations for Waters Used for Commercial Fishing, (In Russian),
W77-12979 1024 5A

Experimental Equipment for Studying Soil Erosion Resistance and Some Results of Its Appliation, (In Russian),
W77-12999 1024 2G

METHOXYCHLOR

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

METHOXYCHLOR DERIVATIVE

Chlorohydrocarbons in Marquette Fish Hatchery Lake Trout (Salvelinus namaycush),
W77-10954 1022 5C

METHYL ETHYL KETONE

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

METHYL ISOBUTYL KETONE

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

METHYL MERCURIC CHLORIDE

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

METHYL MERCURY

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

The Form of Mercury in Freshwater Fish,
W77-03673 1008 5A

The Accumulation of Mercury by the Thornback Ray, Raja Clavata L.,
W77-11507 1023 5C

The Accumulation of Mercury from Food by the Plaice, Pleuronectes Platessa L.,
W77-11508 1023 5C

METHYL MERCURY CHLORIDE

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

METHYL METHACRYLATE

Purification of Pulp and Paper Mill Effluents by Radiation Polymerization. I. Purification with the Use of Methyl Methacrylate (Ochistka stochnykh vod predpriyatii tsellyulozno-bumazhnoi promyshlennosti metodom radiatsionnoi polimerizatsii. I. Ochistka s primeneniem metilmetakrilata),
W77-01655 1004 5D

METHYL PARATHION

Toxicity of Endrin and an Endrin-Methyl Parathion Formulation to Largemouth Bass Fingerlings,
W77-01066 1003 5C

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Biological Effects and Persistence of Methyl Parathion in Clear Lake, California,
W77-10063 1020 5C

METHYLATION

Microbial Alkylation of Metals,
W77-04859 1010 5C

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

METHYLATION (BIOCHEMICAL)

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

METHYLBENZENE

A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

METHYLBUTYL KETONE

An Incident of Industrially Related Toxic Peripheral Neuropathy,
W77-02838 1006 5A

METHYLENE BLUE ACTIVE SUBSTANCES

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

METHYLHYDRAZINE

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

METHYLMERCURIC CHLORIDE

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Long-Term Effects of Methylmercuric Chloride on Three Generations of Brook Trout: Toxicity Accumulation, Distribution and Elimination,
W77-04031 1008 5C

METHYLMERCURY

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Distribution and Bioaccumulation of Mercury in Biotic and Abiotic Compartments of a Contaminated River-Reservoir System,
W77-01297 1003 5C

Pharmacokinetic Approaches to the Evaluation of Methylmercury in Fish,
W77-01301 1003 5C

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Study of a Human Population Exposed to Methylmercury from Fish Consumption, (In French),
W77-05688 1012 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern

Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

Mercury in Water, a Bibliography, Volume 3,
W77-07605 1016 5A

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-08697 1018 5C

Dose-Dependent Effects of Methylmercury on Limb Regeneration of Newts (Triturus Viridescens),
W77-08699 1018 5C

Methylmercury Induced Injury of Single Barnacle Muscle Fibers,
W77-08700 1018 5C

Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

Methylmercury in the Environment: A Review of Current Understanding,
W77-11516 1023 5C

Polyamine Synthesis in Liver and Kidney of Flounder in Response to Methylmercury,
W77-11518 1023 5C

METHYLMERCURY ACETATE

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

METHYLMERCURY ANALYSIS

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

METHYLMERCURY CHLORIDE

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

METHYLNAPHTHALENE

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

METHYLOSINUS TRICHOSPORIUM

Biochemical, Morphological, and Physiological Studies on the Methane Oxidizing Bacterium, Methylosinus Trichosporium, with Emphasis on Structure, Function, and Composition of the Intracytoplasmic Membranes,
W77-05482 1011 5C

METHYLQUIOLINE

Toxic Interaction of Mixtures of Two Coal Conversion Effluent Components (Resorcinol and 6-Methylquinoline) to Daphnia Magna,
W77-11528 1023 5C

METLAND MODEL

The Utility of Computers in Landscape Planning, the Selection and Application of a Computer Mapping and Assessment System for the Metropolitan Landscape Model (METLAND),
W77-09151 1019 6A

METRIDIA PACIFICA

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

METROMEX

Maximum 5-Minute and Hourly Rainfalls on Metromex Network, 1971-1975,
W77-07374 1015 2B

METROPOLITAN WATER DIST. OF SO. CAL.

Energy for Water,
W77-01273 1003 6D

MEVINPHOS

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

MEXICAN WATER TREATY

Treaties Concerning Colorado River,
W77-06075 1012 6E

The Politics of Salt: Background and Implications of the Mexican-American Treaty of 1944,
W77-11097 1022 6E

Mexican-American International Water Quality Problems: Prospects and Perspectives,
W77-11169 1022 6E

United States Approaches to the Salinity Problem on the Colorado River,
W77-11170 1022 6E

Salinity in the Colorado: An Interpretation of the Mexican-American Treaty of 1944,
W77-11171 1022 6E

The Colorado River: International Aspects,
W77-11172 1022 6E

A History and Interpretation of the Water Treaty of 1944,
W77-11174 1022 6E

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

MEXICO

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

Phytoplankton of the Laguna Salada and Adjacent Area, Veracrux (September, 1973), (In Spanish),
W77-02859 1006 5C

Plankton of Coastal Lagoons: XI. Transport in Three Estuaries of the Northwest of Mexico (November, 1973) (In Spanish),
W77-03145 1007 2L

Environmental Protection in Mexico and Canada,
W77-03698 1008 6E

Occurrence of Tumor-Bearing Dover Sole (Microstomus Pacificus) Off Point Arguillo, California and Off Baja, California, Mexico,
W77-06278 1013 5C

The Colorado River Salinity Problem--Old Approaches to a New Issue,
W77-06540 1013 5G

Red Tide in the Upwelling Region of Baja California,
W77-07169 1015 5C

Aquatic Organism Contamination by Mercury Residues in the Coatzacoalcos River Estuary, Mexico,
W77-07394 1015 5C

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Restless River: International Law and the Behavior of the Rio Grande,
W77-08384 1017 6E

An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

Tijuana River Flood Control Project,
W77-11167 1022 6E

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

System for Managing Saline and Run-off Water for Fruit and Crop Production in Arid Regions of Mexico,
W77-12741 1024 3C

MEXICO CITY

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

MEXICO (LAKE OF CHAPALA)

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

MEXICO WATER TREATY

The Water Quality Problem on the Colorado River,
W77-11168 1022 5G

MGOBEZELENI LAKE
Survey of Mgobezeleni Lake-System in Zululand, with a Note on the Effect of a Bridge on the Mangrove Swamp,
W77-01380 1003 2H

MIAMI-DADE (FLORIDA) WATER AND SEWER AUTHORITY
Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

MICAS
Ice Nucleation by Micas,
W77-09956 1020 2B

MICHIGAN
Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

A Plan for Michigan's Shorelands.
W77-00958 1002 6B

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Lake St. Clair Beginning-of-Month Water Levels and Monthly Rates of Change of Storage,
W77-02675 1006 2H

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

Beach Processes, Perrien County, Michigan,
W77-03095 1007 2J

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Investigations on the Role of Dissolved Organic Matter in Determining Ecosystem Structure and Function: The Plankton and Photoheterotrophy,
W77-03389 1007 5C

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

Kempf V Ellixson (Determination of Riparian Rights Where Land is Separated from Body of Water by Public Highway).
W77-03710 1008 6E

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Ground-Water Pollution Aspects of Land Disposal of Sewage from Remote Recreation Areas,
W77-04756 1010 5B

Genesee County Parks and Recreation Study,
W77-05214 1011 6B

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Ground-Water Data for Michigan, 1975,
W77-08753 1018 7C

Water Pollution Modeling in the Detroit Metropolitan Area,
W77-09187 1019 5B

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas: A Case Study, Kalamazoo, Michigan,
W77-09532 1019 6F

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

Floodplain Zoning--An Alternative Approach to Land Regulation in Flood Hazard Areas,
W77-10451 1021 6F

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

Flowing Wells in Michigan 1974,
W77-11375 1022 4B

Flood Plain Information: River Rouge, Michigan, Main, Evans Ditch, and Franklin Branches in Wayne and Oakland Counties.
W77-11838 1023 4A

Flood Plain Information: Upper River Rouge, Farmington, Michigan.
W77-11839 1023 4A

Conceptual Design of a Computer System to Support the Operations of the Submerged Lands Section Under Act 247 and Act 346.
W77-12961 1024 7C

MICRO-GASOMETRIC DETERMINATION
Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

MICRO-IRRIGATION SYSTEMS
Ferti-Irrigation - Application of Fertiliser Materials by Means of Micro-Irrigation Systems - Part 1,
W77-01393 1003 3F

MICRO-ZOOPLANKTON
Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

MICROALGAE
Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

MICROANALYSIS
Microanalyse de L'Incorporation d'un Metal Lourd Dans les Ecailles d'un Poisson,
W77-03663 1008 5A

MICROBES
Some Problems of Sanitary Microbiology, (In Russian),
W77-04085 1008 5A

MICROBIAL DEGRADATION
Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

Hygienic Aspects of Microbial Contamination of Water Basins, (In Russian),
W77-00454 1001 5B

Method and Apparatus,
W77-00696 1002 5D

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

Bacterial Degradation of Polychlorinated Biphenyls II. Rate Studies,
W77-02851 1006 5C

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

The Conditions for Biodegradation of Petroleum Hydrocarbons at Sea,
W77-04042 1008 5B

Microbial Processes of Phenol Degradation in the Volga and its Reservoirs, (In Russian),
W77-04064 1008 5C

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Bacterial Degradation of Motor Oil,
W77-04577 1009 5B

Microbial Alkylation of Metals,
W77-04859 1010 5C

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

A General Model of Microbial Growth and Decomposition in Aquatic Ecosystems,
W77-06684 1014 5C

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

The Rate of Microbial Degradation of Oil in a Beach Gravel Column,
W77-07138 1015 5B

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

The Effect of Soluble Organic Matter On the Utilization of Phenoxy Herbicides by Pseudomonas sp.,
W77-08504 1017 5C

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Evaluation of Petroleum-Degrading Potential of Bacteria from Water and Sediment,
W77-09472 1019 5B

Picloram Degradation in Soils as Influenced by Soil Water Content and Temperature,
W77-09644 1020 5B

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Microorganisms Oxidizing Petroleum and Petroleum Products in the Presence of Higher Aquatic Plants, (In Russian),
W77-10250 1021 5C

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Pretreating an Acid Whey Waste for Sewer Discharge,
W77-10627 1021 5D

Study of Mineralization in an Agricultural Soil of Residual Muds of Various Origins, (In French),
W77-10998 1022 5G

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Conditions of the Emergence of Soil Toxicity During Application of Straw and Flooding, (In Russian),
W77-12983 1024 2G

MICROBIAL ECOLOGY

Nitrate Reduction and Nitrite Utilization by Nitrifiers in an Unsaturated Hanford Sandy Loam,
W77-00478 1001 5B

MICROBIAL FORMATION (SOILS)

Microbial Formation of Volatile Selenium Compounds in Soil,
W77-09648 1020 2G

MICROBIAL INDICATORS

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

MICROBIAL INORGANIC POLYPHOSPHATES

Microbial Inorganic Polyphosphates: Factors Influencing Their Accumulation,
W77-09965 1020 2G

MICROBIAL OIL DEGRADATION

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

MICROBIAL POPULATIONS (SOILS)

Short Term Nitrate Losses and Associated Microbial Populations in Soil Columns,
W77-00309 1001 2G

MICROBIOLOGICAL EFFECT

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

MICROBIOLOGY

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

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W77-01781 1004 5A

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W77-02232 1005 2I

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

The Influence of Carbon-Nitrogen Ratio on the Chlorination of Microbial Aggregates,
W77-03414 1007 5D

The Conditions for Biodegradation of Petroleum Hydrocarbons at Sea,
W77-04042 1008 5B

Some Problems of Sanitary Microbiology, (In Russian),
W77-04085 1008 5A

Microbiological Characteristics of the Ros/River and Some of Its Tributaries, (In Russian),
W77-04093 1008 5C

Wastewater Microbiology,
W77-09893 1020 5D

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

MICROCLIMATOLOGY

Microclimatic Patterns on the Arid Lands Ecology Reserve,
W77-02870 1006 2B

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

MICROCOSMS

Production Cycles in Aquatic Microcosms,
W77-09500 1019 5C

MICROCYSTIS-AERUGINOSA

Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

Physical and Chemical Parameters Associated with Phytoplankton Abundance and Periodicity in a Fertilized Fish Pond,
W77-08922 1018 5C

Effect of Some Hydromechanical Factors on the Physiological State of Microcystis Aeruginosa Kuetz. Emend Ekenk, (In Russian),
W77-12321 1024 2I

MICROCYSTIS-WESENBERGII
Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

MICROECONOMIC DECISION MODEL
Economic Effects of Enforcement Variables on Commercial Oil Pollution Control Strategy,
W77-02418 1005 5G

MICROENVIRONMENT
The Effect of Digested Sludge on Soil Biological Activity,
W77-00612 1002 5D

Production Cycles in Aquatic Microcosms,
W77-09500 1019 5C

MICROFLOTATION
Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

MICROFLOTATION (WASTE WATER)
Microflotation in Effluent Purification (Mikroflotation in der Abwasseraufbereitung),
W77-09899 1020 5D

MICROHAEMATOCRIT
The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

MICROLYSIMETERS
Assessment of Water Loss Patterns with Microlysimeters,
W77-11115 1022 2D

MICROMEDUSAE
About the Presence of the Micromedusae Craspedacusta Sowerbyi Lake in the Umbrian Course of Tiber River, (In Italian),
W77-12467 1024 2I

MICROMETEOROLOGY
Microclimatic Patterns on the Arid Lands Ecology Reserve,
W77-02870 1006 2B

Experimental Evaluation of a Crop Climate Simulation Model for Indian Corn (Zea Mays L.),
W77-11631 1023 3F

MICROMETEROLOGY
Development and Evaluation of Evapotranspiration Models for Irrigation Scheduling,
W77-12779 1024 3F

MICRONUTRIENT ANALYSIS
Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

MICRONUTRIENT UPTAKE
The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

MICRONUTRIENTS
Interactions of Micronutrients in Barley Grown on Zinc-Polluted Soils,
W77-02287 1005 2G

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

MICROORGANISMS
The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

Number, Generation Time and Production of Bacteria in Water of the Saratov Reservoir, (In Russian),
W77-00143 1001 5C

Biodegradability of Phenolic Compounds (Biodegradabilita di composti fenolici),
W77-00328 1001 5D

Microorganisms as Indicators of the Environmental Hygiene: Ecology, Taxonomy and Enumeration, (In Dutch),
W77-00348 1001 5A

Influence of the Supramolecular Marine Environment on Pitting Corrosion,
W77-00890 1002 8G

Evaluation of Methods of Recovering Pathogenic Intestinal Microorganisms from Water, (In Russian),
W77-02244 1005 5F

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Some Problems of Sanitary Microbiology, (In Russian),
W77-04085 1008 5A

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Escherichia Coli as a Sanitary-Indicator Microorganism, (In Russian),
W77-07067 1014 5A

Use of Quantitative Correlations Between Microorganisms for River Pollution Evaluation, (In Russian),
W77-07482 1015 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Planktonic Microbial Heterotrophy: Its Significance to Community Biomass Production,
W77-07993 1016 5C

Controlling Sludge Bulking,
W77-08636 1018 5D

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Wastewater Microbiology,
W77-09893 1020 5D

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

Microorganisms Oxidizing Petroleum and Petroleum Products in the Presence of Higher Aquatic Plants, (In Russian),
W77-10250 1021 5C

Sterilization of Purification Plant Sludge by Means of Electron Radiation (Hygienisierung von Klaerschlamm durch Elektronenbestrahlung),
W77-10604 1021 5D

Soils Infiltration and Evaporation of Wastewater by Aerobic Processes,
W77-10628 1021 5D

A Method for Studying Microfauna of Activated Sludge (Metoda badania mikrofauny osadu czynnego),
W77-10643 1021 5D

Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

Proceedings of Workshop on Microorganisms in Urban Stormwater,
W77-11489 1022 5A

Microorganisms in Urban Stormwater -- A U.S. Environmental Protection Agency Program Overview,
W77-11490 1022 5A

Hygienization of Sewage Sludge by Electron Irradiation,
W77-11712 1023 5E

Guidelines for the Quick Evaluation of the Sewage Purification Process with Activated Sludge (Przewodnik dla szybkiej oceny przebiegu oczyszczania sciekow osadem czynnym. Czesc. III. Organizmy rzadziej spotykane),
W77-11726 1023 5D

Microbiological Characteristics of Certain Types of Marshy Forests of the Tavda Transural Region, (In Russian),
W77-12016 1023 2G

Ecology of Encrusting Microfauna of Higher Aquatic Plants of the Kiev Reservoir, (In Russian),
W77-12365 1024 2H

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

About the Presence of the Micromedusae Craspedacusta Sowerbyi Lake in the Umbrian Course of Tiber River, (In Italian),
W77-12467 1024 2I

Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

Sewage Treatment Process,
W77-12925 1024 5D

Process for Promotion of Algae Growth in a Sewage Medium,
W77-12949 1024 5D

MICROSCOPY
A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

A Fundamental Study of Removal Mechanisms of Suspended Particles in the Deep Filter (III) (Kyusoku rokaroso no kyodo (III): Teijo rokaji no rihaku to sono sayo kiko no kento),
W77-11829 1023 5D

MICROSTRAINING (TREATMENT)
Paper Mill Wastewater Treatment by Microstraining,
W77-09758 1020 5D

MICROSTRUCTURE
Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

Vertical Profiles of Temperature and Fine-Scale Velocity Structure in the Thermocline,
W77-01615 1004 2L

MICROSTRUCTURE SPECTRA
Spectrum of Small-Scale Oceanic Temperature Gradients,
W77-03979 1008 2L

MICROWAVE BRIGHTNESS TEMPERATURE
Satellite Microwave Observations of Soil Moisture Variations,
W77-02495 1005 2G

MICROWAVE EMISSION
Microwave Emissions from Dry and Wet Snow,
W77-10687 1021 2C

MICROWAVE IMAGERY
Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

MICROWAVE RADIATION
On the Use of Microwave Radiation for Great Lakes Ice Surveillance,
W77-11052 1022 2C

MICROWAVE RADIOMETERS
Remote Sensing of Soil Moisture with Microwave Radiometers-II,
W77-06530 1013 7B

Satellite Microwave Observations of Soil Moisture Variations,
W77-09335 1019 2G

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11801 1023 5A

MICROWAVE SPECTROMETERS
Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

MICROWAVES
Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

Remote Sensing of Soil Moisture by a 21-CM Passive Radiometer,
W77-02480 1005 2G

Satellite Microwave Observations of Soil Moisture Variations,
W77-02495 1005 2G

Remote Sensing of Soil Moisture with Microwave Radiometers-II,
W77-06530 1013 7B

Waste Water System Uses Microwaves,
W77-07019 1014 5D

Determination of Rainfall Distributions from Microwave Radiation Measured by the Nimbus 6 ESMR,
W77-10106 1021 2B

Microwave Emissions from Dry and Wet Snow,
W77-10687 1021 2C

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

MID-ARKANSAS RIVER BASIN (OKLA)
Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

MID-ATLANTIC BIGHT
Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

MID-COAST DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

MID-COLUMBIA DAMS
Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

MID-COLUMBIA RIVER
Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

MIDDLE ATLANTIC BIGHT
The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

MIDDLE CREEK (NB)
Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

MIDDLE EAST
Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Status of Desalination Research and Technology in the Middle East,
W77-11109 1022 3A

Prospects of the Exploitation of Advanced Energy Resources in Water Production in the Middle East,
W77-11116 1022 3A

MIDDLE FORK BAYOU D'ARBONNE RESERVOIR (LA)
Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

MIDDLE MERRIMACK RIVER BASIN (NH)
Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

MIDDLESEX COUNTY (VA)
Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

MIDGES
Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Studies on the Japanese Chironimid Midges as a Nuisance: I. Larvicidal Effects of Some Organophosphorus Insecticides Against the Last Larvae of Chironomus Yoshimatsui Martin and Sublette, (In Japanese),
W77-04592 1009 5C

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

MIEDZIAN 50
The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

MIGRATION
Leachate Migration Through Selected Clays,
W77-02406 1005 5B

Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

Prediction of Vinyl Chloride Monomer Migration from Rigid PVC Pipe,
W77-04720 1010 5B

Vertical Migrations of Larvae of the Atlanto-Scandian Herring (Clupea Harengus L.),
W77-05842 1012 2L

MIGRATION PATTERNS
Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

MIGRATORY BIRDS
Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Chemical Inputs by a Colony of Franklin's Gulls Nesting in Cattails,
W77-10142 1021 5C

MIKOLAJSKIE LAKE (POLAND)
The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Ecological Relations Between Invertebrates and Submerged Macrophytes in the Lake Littoral,
W77-06694 1014 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

MILAN ARMY AMMUNITION PLANT
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

MILFORD HAVEN ESTUARY (WALES)
Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

MILITARY ASPECTS
Treatment of Wastewater From Military Explosives and Propellants Production Industry by Physicochemical Processes,
W77-08337 1017 5D

MILITARY RESERVATIONS
United States V Holmes (Waters and Subaqueous Areas Located Within Perimeters of a Military Post),
W77-09008 1018 6E

Aquatic Baseline Survey of Selected Test Areas on Eglin Air Force Base Reservation, Florida,
W77-09499 1019 7C

MILK
Effect of Sprinkling Pastures with Potato Starch Factory Waste Effluents on Quality of Raw Milk, and Development of a Process for Removal of Protein, Amino Acids and Potassium from Wastes. (In Japanese)
W77-00420 1001 5D

MILL CLOSURES
Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

MILL CREEK (GA)
Flood Plain Information: Lotts Creek and Mill Creek, City of Statesboro, Georgia.
W77-05301 1011 4A

MILL RIVER
Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

MILL RIVER (MA)
An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

MILLERS RIVER (MA)
Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

MILLERS RIVER (MASS)
Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

MILLET
Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

Evapotranspiration and Soil Water Movement Beneath the Root Zone of Irrigated and Nonirrigated Millet (Panicum Miliaceum),
W77-12315 1024 2D

MILLS
Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

MILTON KEYNES SEWERAGE SYSTEM (ENGLAND)
Milton Keynes Sewerage System Opened,
W77-05318 1011 5D

MILWAUKEE (WIS)
Detention Tank for Combined Sewer Overflow, Milwaukee, Wisconsin, Demonstration Project.
W77-12824 1024 5D

MIMBRES RIVER BASIN (N MEX)
Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

MINAS BAY (NOVA SCOTIA)
Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

MINAS CHANNEL (NOVA SCOTIA)
Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

MINDEL LAKE (GERMANY)
Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

MINE ACIDS
Acid Mine Drainage (A Bibliography with Abstracts),
W77-02207 1005 5G

MINE ACIDS

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Survival of Mayfly Larvae Under Mine Acid Conditions,
W77-07128 1015 5C

Resources Allocation to Optimize Mining Pollution Control,
W77-09481 1019 5G

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

Electrobiochemical Neutralization of Acid Mine Water,
W77-10569 1021 5B

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

MINE DRAINAGE

Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Coal and the Environment, Abstract Series, Mine Drainage Bibliography, 1910-1976.
W77-01192 1003 5G

Acid Mine Drainage (A Bibliography with Abstracts),
W77-02207 1005 5G

Commonwealth V. Barnes and Tucker Company (Public Nuisance of Acid Mine Drainage).
W77-03519 1007 6E

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

Leadville Mine Drainage Tunnel Act of 1976.
W77-08115 1017 6E

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

Resources Allocation to Optimize Mining Pollution Control,
W77-09481 1019 5G

New Medium for Isolating Iron-Oxidizing and Heterotrophic Acidophilic Bacteria from Acid Mine Drainage,
W77-09511 1019 5B

Heavy Metal Enrichment in Mine Drainage: I. The Rustenburg Platinum Mining Area,
W77-10199 1021 5C

Coal and Coal Mine Drainage, (Literature Review),
W77-10355 1021 5G

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

Heavy Metal Enrichment in Mine Drainage 2. The Witwatersrand Goldfields,
W77-11544 1023 5C

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

MINE RECLAMATION

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

MINE SOILS

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

MINE SPOILS

Revegetating Coal Mine Spoils in New Mexico: A Laboratory Study,
W77-05114 1011 5G

MINE WASTES

Coal and the Environment, Abstract Series, Mine Drainage Bibliography, 1910-1976.
W77-01192 1003 5G

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: II. Reducing Calcium Precipitation and Sodium Hazard,
W77-01286 1003 5G

Project Proposal for Surface-Mined Land Enhancement (SMILE),
W77-01699 1004 5G

Acid Mine Drainage (A Bibliography with Abstracts),
W77-02207 1005 5G

Elastic-Plastic Stability Analysis of Mine-Waste Embankments,
W77-02502 1005 8D

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

Commonwealth V. Barnes and Tucker Company (Public Nuisance of Acid Mine Drainage).
W77-03519 1007 6E

Seasonal and Short-Term Variations in the Concentration and Supply of Dissolved Zinc to Polluted Aquatic Environments,
W77-03778 1008 5B

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Revegetating Coal Mine Spoils in New Mexico: A Laboratory Study,
W77-05114 1011 5G

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

Experience in Treating Waste Waters from the Donetsk Mines, (In Russion),
W77-07068 1014 5D

Limnologic-Geologic Excursion in the Territory of the Lower Erft River, (In German),
W77-07799 1016 5B

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Heavy Metal Enrichment in Mine Drainage: I. The Rustenburg Platinum Mining Area,
W77-10199 1021 5C

United States v Reserve Mining Company (Discharge of Taconite Tailings into Lake Superior Causing Discoloration of Surface Water).
W77-10499 1021 6E

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

Acid Mine Drainage, A Bibliography with Abstracts.
W77-12664 1024 5G

MINE WATER

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

Acid Mine Drainage (A Bibliography with Abstracts),
W77-02207 1005 5G

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Mineral Mining and Processing Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources for Pretreatment Standards for Incompatible Pollutants.
W77-04374 1009 5G

Effect of Highly Mineralized Mine Waters on Fish Fauna of Water Bodies of the Steppe Zone of the Ukrainian SSR, (In Russian),
W77-04721 1010 5C

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

Remote Sealing of Mine Passages Containing Flowing Water,
W77-08896 1018 5G

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

MINE WATERS

The Trace Element Composition of Mine Waters, (In Russian),
W77-12969 1024 5A

MINERAL CONSTITUENTS

SKYLAB Study of Water Quality,
W77-02505 1005 5A

MINERAL CONTENT

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

MINERAL CYCLING

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

MINERAL DISTRIBUTION

Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

MINERAL EXTRACTION

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

MINERAL HOMEOSTASIS

Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

MINERAL INDUSTRY

Effects of Sedimentation on Coastal Zone Organisms,
W77-00838 1002 5C

Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

Mining and Manufacturing Corporations.
W77-01118 1003 6E

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Implications of the Water Pollution Control Act of 1972 for the Mineral Resources Industry, A Survey.
W77-02806 1006 5G

Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Deep Seabed Hard Minerals Act (To Provide the Secretary of the Interior with Authority to Promote the Conservation and Orderly Development of Deep Seabed Hard Mineral Resources Pending Adoption of an International Regime).
W77-11450 1022 6E

Criteria for Developing Pollution Abatement Programs for Inactive and Abandoned Mine Sites,
W77-11454 1022 5G

MINERAL NEEDS

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

MINERAL PROPERTIES

Mineralogical Composition of Submerged Aquatic Macrophytes from Connecticut,
W77-09477 1019 5A

MINERAL QUALITY

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

MINERAL RESIDUES

Thyroid Modifications in Rats after Administration of Mineral Residue from Drinking Water, (In French),
W77-04089 1008 5C

MINERAL RESOURCES

Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

MINERAL RIGHTS

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

MINERAL TRANSFORMATIONS

A Thermodynamic Model for Predicting the Formation, Stability, and Weathering of Common Soil Minerals,
W77-02285 1005 2G

MINERAL TRANSPORT

Total Mineral Dissolved Transport by World Major Rivers,
W77-01135 1003 5B

MINERAL WATER

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Chemical Composition and Food Value of Some Members of Freshwater Zooplankton in Ponds of the Southern Moldavian SSR, (In Russian),
W77-00509 1001 2H

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

Mineral Springs of Iceland, their Character and Curative Properties, (In German),
W77-04842 1010 2K

Chemical Activation of Groundwaters of the Ingul-Visun' Interfluve within the Yavkinsk Irrigation System, (In Russian),
W77-05952 1012 2G

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

MINERALIZATION

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Study of Mineralization in an Agricultural Soil of Residual Muds of Various Origins, (In French),
W77-10998 1022 5G

MINERALIZED GROUNDWATER

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

MINERALOGY

Sources and Sediment Yield of Hawaiian Watershed and Coastal Sediments,
W77-00791 1002 2J

MINERALOGY

The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

Chemistry of Nearshore Surficial Sediments from Southeastern Lake Michigan,
W77-01805 1004 5C

The Effect of Water with Different Mineralization Levels on the Animal Body, (In Russian),
W77-02270 1005 5C

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Hydromineral Deposits at Volvic, (In French),
W77-04656 1010 2K

Effect of Highly Mineralized Mine Waters on Fish Fauna of Water Bodies of the Steppe Zone of the Ukrainian SSR, (In Russian),
W77-04721 1010 5C

Salt Composition of Water from the Western (Kurtli) Reservoir, (In Russian),
W77-05101 1011 2H

Studies on Soil Salinization and Alkalization as Affected by Irrigation Waters, (In Romanian),
W77-05190 1011 3C

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

Mineralizing Microbial Activity in Lake Faro,
W77-07418 1015 5C

In Vitro Effect of Organic Nitrogen and Potassium Additions on Nitrogen Mineralization and on Exchanges Between the Mud and Water of a Pond, (In French),
W77-07575 1015 5B

Effects of Trace Elements on Nitrogen Mineralization in Soils,
W77-07864 1016 5B

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

Mineralogical Composition of Submerged Aquatic Macrophytes from Connecticut,
W77-09477 1019 5A

Aspects of Size Distributions, Mineralogy and Geochemistry of Deltaic and Adjacent Shallow Marine Sediments, North Arctic Alaska,
W77-10897 1022 2L

MINERALS

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

MINERALS DEPOSITION

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

MINGECHAUR

Biology of Juvenile Bream in the Mingechaur Reservoir, (In Russian),
W77-01546 1003 2H

MINGECHAUR RESERVOIR (USSR)

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

MINING

Marine Sand and Gravel Mining,
W77-00195 1001 3E

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

Panel 'E' - Resource Extraction,
W77-02056 1004 6G

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

Syncrude Vows Environmental Responsibility,
W77-02600 1006 5D

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

International Commodity Cartels and the Threat of New Entry: Implications of Ocean Mineral Resources,
W77-04172 1009 6E

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Industry Category 1a, Ore Mining and Milling.
W77-04303 1009 5G

The International Seabed and the Single Negotiating Text,
W77-05060 1010 6E

Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

Ground Water Problems with Oil Shale Mining in the Piceance Basin,
W77-06045 1012 4B

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

Leadville Mine Drainage Tunnel Act of 1976.
W77-08115 1017 6E

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

Coal Mine Point Source Category Effluent Guidelines and Standards.
W77-11152 1022 6E

Resources and Land Investigations (RALI) Program.
W77-11368 1022 7C

Criteria for Developing Pollution Abatement Programs for Inactive and Abandoned Mine Sites,
W77-11454 1022 5G

International Law, World Order and Human Progress,
W77-11474 1022 6E

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

MINING ENGINEERING
Research with a Practical Bias.
W77-01471 1003 8E

MINING WASTES
Heavy Metals in Lakes of the Coeur d'Alene River Valley, Idaho,
W77-03207 1007 5B

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

MINNEAPOLIS AREA (MINN)
Public Participation in Water Resource Development,
W77-07526 1015 6B

MINNEAPOLIS-SAINT PAUL (MINN)
Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

MINNEAPOLIS-ST PAUL AREA (MINN)
Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

MINNESOTA
Graduate Education Opportunities in Water Resources in the State of Minnesota.
W77-00156 1001 9A

Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

Twelfth Annual Report, Water Resources Research Center.
W77-00731 1002 9D

Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

Hydrogeology of a Drift Filled Bedrock Valley Near Lino Lakes, Anoka County, Minnesota,
W77-00860 1002 2F

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

Minnesota Water Resources Board and Watershed Districts.
W77-02428 1005 6E

A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-03375 1007 5B

The People's Lake,
W77-03594 1007 5G

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Water Resources of the Big Fork River Watershed, North-Central Minnesota,
W77-04233 1009 7C

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

Persistence of Subsoil Compaction in a Mollisol,
W77-05353 1011 2G

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

Flood Plain Information: Redwood River at Marshall, Minnesota.
W77-06584 1013 4A

Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Sewerage for a Rural Resort Area,
W77-06987 1014 5D

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Public Participation in Water Resource Development,
W77-07526 1015 6B

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Temperature Regime in Lake Superior at Silver Bay, Minnesota,
W77-07970 1016 1A

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Small-Stream Flood Investigations in Minnesota, October 1958 to September 1975,
W77-08481 1017 2E

Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

In Re City of White Bear Lake (Standard for Granting of Permits Under the Minnesota Water Management Law).
W77-08993 1018 6E

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Pollution of the Interstate and Intrastate Waters of the Upper Mississippi River and Its Tributaries.
W77-09529 1019 5G

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Chemical Inputs by a Colony of Franklin's Gulls Nesting in Cattails,
W77-10142 1021 5C

MINNESOTA

Proceedings: Minnesota's Water Resources in the Year 2000, A Conference on Planning and Management.
W77-10177 1021 6B

Experimental Studies on Changing Algal Populations from Blue-Greens to Greens,
W77-10269 1021 5G

United States v Reserve Mining Company (Discharge of Taconite Tailings into Lake Superior Causing Discoloration of Surface Water).
W77-10499 1021 6E

United States v Brown (State Waters Within National Parks Subject to Federal Regulations).
W77-11185 1022 6E

Status of Projects in Minnesota, Fiscal Years 1976 and 77.
W77-11367 1022 9D

Precipitation Nutrients in the Open and Under Two Forests in Minnesota,
W77-11831 1023 2K

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

Operating Large Traveling 'Gun' Sprinklers in Winds,
W77-12511 1024 3F

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-12852 1024 5C

MINNESOTA RIVER (MINN)

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

MINNOWS

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Thermal Tolerance of Stream Cyprinid Minnows,
W77-05561 1011 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

Vergleichende Prufungen der Fischtoxizitaten an Elritzen Forellen und Goldorfen (Comparative Tests on Toxicity to Fish Using Minnows, Trout, and Golden Orfe), (In German),
W77-12212 1023 5A

MIREX

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

MIRNY STATION (ANTARCTIC OCEAN)

Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

MIRROR LAKE (NH)

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

MIRROR LAKE (WIS)

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

MISCIBLE DISPLACEMENT

Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

MISCIBLE DISPLACEMENT (SOILS)

Miscible Displacement in Soils,
W77-12577 1024 2G

MISSIONARY RIDGE WATERSHED (COLO)

Predicting Snow Depths on a Mountain Watershed,
W77-09257 1019 2C

MISSISSIPPI

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

Effect of Land Use on Sediment Delivery Ratios,
W77-00777 1002 2J

Sediment Yields from a Mississippi Delta Watershed,
W77-00784 1002 4D

Suspended Sediment, Solar Radiation and Heat in Agricultural Reservoirs,
W77-00809 1002 2J

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

Water Use in Mississippi, 1975,
W77-04972 1010 7C

Ground-Water Data for Leflore County, Mississippi,
W77-05265 1011 7C

Ground-Water Data for Humphreys County, Mississippi,
W77-05266 1011 7C

Ground-Water Data for Issaquena County, Mississippi,
W77-05267 1011 7C

Ground-Water Data for Quitman County, Mississippi,
W77-05268 1011 7C

Ground-Water Data for Coahoma County, Mississippi,
W77-05269 1011 7C

Ground-Water Data for Tate County, Mississippi,
W77-05270 1011 7C

Ground-Water Data for Tunica County, Mississippi,
W77-05271 1011 7C

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

Proceedings Mississippi Water Resources Conference 1976.
W77-06084 1012 4A

Erosion Measured from a Lister-Till System,
W77-06089 1012 4D

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Computer Implemented Classification of Vegetation Using Aircraft Acquired Multispectral Scanner Data,
W77-08421 1017 4A

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

Water for Industrial and Agricultural Development in Attala, Holmes, Humphreys, Issaquena, Sharkey, and Yazoo Counties, Mississippi,
W77-08748 1018 4B

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

Flushing Characteristics of a Mississippi Dead-End Canal System,
W77-09721 1020 5B

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

Divide Cut Drainage Structures Tennessee-Tombigbee Waterway Mississippi and Alabama; Hydraulic Model Investigation,
W77-10046 1020 8B

Hydrologic Unit Map--1974, State of Mississippi.
W77-11883 1023 7C

MISSISSIPPI COAST

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

MISSISSIPPI DELTA

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

MISSISSIPPI RIVER

Sedimentation of a Flatland Watershed in Louisiana,
W77-00789 1002 4D

Channel Changes Produced by the 1973 Flood on the Lower Mississippi River,
W77-00833 1002 2J

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Dispersion--Mississippi River Below Baton Rouge, La.,
W77-02989 1006 5B

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

Heavy Metals in the Lower Mississippi,
W77-03654 1008 5B

River and Cooling Water Temperature Fluctuations,
W77-03834 1008 5B

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

Comparative Climatic Analysis of Lower Mississippi River Floods: 1927, 1973, and 1975,
W77-05158 1011 2E

Mississippi River Flood Plain Information, Mile 506.9 to Mile 549.4.
W77-05287 1011 4A

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

Multistation, Multiyear Synthesis of Hydrologic Time Series by Disaggregation,
W77-06008 1012 2A

Pearson V. City of Guttenberg (City's Procrastination in Developing Riverside Tract Give Private Adjacent Owner Title).
W77-06067 1012 6E

Monsanto Company V Illinois Pollution Control Board (Requirements for Petitioning for Permanent Variance from Water Pollution Regulations Pertaining to Mercury Discharge into Public Sewer System).
W77-06068 1012 6E

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

PCB Investigations of the Mississippi River and its Tributaries Water, Bottom Sediment and Point Sources,
W77-06368 1013 5C

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

Maintenance Dredging in the New Orleans District, US Army Corps of Engineers,
W77-07347 1015 8D

The Port of New Orleans and Its Dredging Program,
W77-07348 1015 8D

Remote Sensing of Mississippi River Characteristics,
W77-08070 1016 7B

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

Variations in the Abundance of Channel Catfish Year Classes in the Upper Mississippi River and Causative Factors,
W77-09768 1020 5C

Current Dynamics and Sediment Distribution in the West Mississippi Delta Area,
W77-10032 1020 2L

Comparison of 4-1/2-and 7-In. (6-In. Nominal) Maximum Sfze Aggregate Mixtures for New Lock and Dam No. 26, Mississippi River,
W77-10978 1022 8F

Corps Games in Mid-America,
W77-11473 1022 6E

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

Effects of Tow Traffic on the Resuspension of Sediments and on Dissolved Oxygen Concentrations in the Illinois and Upper Mississippi Rivers Under Normal Pool Conditions,
W77-12331 1024 5C

MISSISSIPPI RIVER BASIN

Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

Problem Identification and Ranking, A Selected Review of Techniques Used by Public Agencies,
W77-02080 1005 6B

Pollution of the Interstate and Intrastate Waters of the Upper Mississippi River and Its Tributaries.
W77-09529 1019 5G

MISSISSIPPI RIVER BASIN

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

MISSISSIPPI RIVER VALLEY

Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

MISSISSIPPI SOUND

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

A Study on the Effects of Maintenance Dredging on Selected Ecological Parameters in Gulfport Harbor, Mississippi.
W77-11901 1023 5C

MISSISSIPPIAN AGE

Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

MISSOURI

Excavated Sediment Traps Prove Superior to Dammed Ones,
W77-00797 1002 4D

Distribution of Reservoir Sediment--Iowa and Missouri Deep Loess Hills,
W77-00825 1002 2J

Entrenchment of Drainage Systems in Western Iowa and Northwestern Missouri,
W77-00831 1002 2J

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Pre-Impoundment Biological Survey of Stockton Reservoir-Sac River, Missouri, August 1968,
W77-01793 1004 5C

Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Water Resources of South-Central Missouri,
W77-04223 1009 7C

Ogle V Terminal Railroad Association of St. Louis (Flooding Damages from Railway's Inadequate Culvert Openings).
W77-04385 1009 6E

Water-Quality Characteristics of Six Small Lakes in Missouri,
W77-05259 1011 5B

A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

The Effect of a Thermal Effluent on the Benthos of Thomas Hill Reservoir, Missouri,
W77-05605 1012 5C

The Age and Growth of the Largemouth Bass Micropterus Salmoides (Lacepede), in a Thermally Loaded Reservoir,
W77-05731 1012 5C

Growth of the White Crappie on a Reservoir Receiving a Thermal Discharge: Thomas Hill, Missouri,
W77-05732 1012 5C

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

Maximum 5-Minute and Hourly Rainfalls on Metromex Network, 1971-1975,
W77-07374 1015 2B

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Mercury Accumulation in Trout of Southern Missouri,
W77-08304 1017 5C

United States V 3,727-91 Acres of Land in Pike County, State of Missouri (Compensation Allowed Drainage District for Condemned Property).
W77-08399 1017 6E

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Missouri Stream and Springflow Characteristics Low-Flow Frequency and Flow Duration,
W77-08743 1018 2E

Mc Ilray V Hamilton (Permissive Use of Spring Overflow Defeats Prescriptive Right Claim),
W77-09006 1018 6E

Flood Plain Information: Little Dry Fork, Love Branch, Burgher Branch, City of Rolla, Missouri.
W77-09372 1019 4A

Flood Plain Information: St. Charles County, Missouri, Part 3, Cuivre River and Tributaries.
W77-09373 1019 4A

Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

Water Resources Data for Missouri, Water Year 1975.
W77-10855 1022 7C

Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

Hydrologic Unit Map--1974, State of Missouri.
W77-11885 1023 7C

Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

Temperature of Missouri Streams,
W77-12385 1024 7C

MISSOURI PACIFIC RAILROAD COMPANY

Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

MISSOURI RIVER

The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

The Sedimentary Influence of a Tributary Stream Growth of the Niobrara Delta,
W77-00824 1002 2J

Channel Improvements of the Missouri River,
W77-00836 1002 4D

Hydrogeologic Characteristics of the Missouri River Valley Flood Plain,
W77-02194 1005 2F

Strip-Mining Techniques to Minimize Environmental Damage in the Upper Missouri River Basin States,
W77-02445 1005 5G

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Water Pollution Surveillance in the United States. Report Number 1, Missouri River Main Stem, 1958-1962.
W77-03379 1007 5A

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Valder V Wallis (Establishing Title to Accreted Portion of Interstate Island),
W77-04932 1010 6E

Missouri River Power Curve Regression Equations,
W77-07152 1015 2E

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Confiscation of Indian Winter's Rights in the Upper Missouri River Basin,
W77-11154 1022 6E

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

MISSOURI RIVER BASIN
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

MISSOURI RIVER BASIN PROJECT
Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

MISSOURI VALLEY
Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

MISSPECIFIED WELFARE FUNCTIONS (ECONOMICS)
The Evaluation of Simple and Optimal Decision Rules with Misspecified Welfare Functions,
W77-07439 1015 6B

MIST AND FOAM DRILLING
Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

MIST IRRIGATION
Response of Wheat Under Sub-Humid Irrigated Conditions to Atmospheric Misting During Grain Filling,
W77-01284 1003 3F

The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

MITES
An Identification Key to the Water Mite Families of the Ethiopian Region,
W77-10192 1021 5A

MITOCHONDRIA
Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

MITOSIS
Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

MITOTIC DELAY
Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

MITOTIC DELAYS
Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

MITSCHERLICH MODELS
Application of a Two-Variable Mitscherlich Function in the Analysis of Yield-Water-Fertilizer Relationships for Corn,
W77-11961 1023 3F

MIXED ANAEROBIC FILTERS
Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

MIXED CULTURES
In Vivo Excretions of the Blue-Green Algae Anacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

MIXED FISH STOCKS
Optimal Exploitation of Multiple Stocks by a Common Fishery: A New Methodology,
W77-00920 1002 6A

MIXED FOREST
Soil Water Availability in an Arizona Mixed Conifer Clearcutting,
W77-05121 1011 4D

MIXED FUNCTION OXIDASES
Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

MIXED HYDROCARBON SUBSTRATE
Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

MIXED INTEGER PROGRAMMING
Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

Pumped Storage Optimization in Generation Systems,
W77-07525 1015 4A

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

MIXED-OAK FOREST
The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

MIXING
Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

Physical Fundamentals of the Mixing of Solutions of Pollutants and Sewage in Porous Media,
W77-00554 1002 5B

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

Hydrochemistry and Ground-Water Mixing in Part of the Lincolnshire Limestone Aquifer, England,
W77-01627 1004 2F

Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Current Structure and Mixing in the Shelf/Slope Water Front South of New England,
W77-03087 1007 2L

A Study of Mixing Characteristics of Sewage Stabilization Ponds with Radioactive Tracers,
W77-03461 1007 5D

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

The Effects of Diurnal Mixing on Thermal Stratification of Static Impoundments,
W77-05172 1011 4A

Water Quality Information Storage and Retrieval System for Hawaii, Phase III: Final Report, (November 1973-September 1974),
W77-05673 1012 5A

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

Simplified Analysis of Surface Buoyant Jet,
W77-06298 1013 5B

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

Mixing in Upper Layer of a Lake During Heating Cycle,
W77-06649 1014 2H

Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

The Influence of Spring Circulation on Zooplankton Dynamics in the Plussee,
W77-07518 1015 5C

MIXING

Application of Thermal Scanning to the Study of Transverse Mixing in Rivers,
W77-08071 1016 5B

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

Mixer Cuts Solids Up and Time Down for Waste Treatment.
W77-09885 1020 5D

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

Entrainment Velocity in Natural Stratified Vertical Shear Flow,
W77-09946 1020 2L

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

Peripheral Mixing Turns Sludge into Fuel Gas.
W77-11704 1023 5D

A Note on the Lateral Mixing of Water Masses,
W77-12303 1024 2L

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12701 1024 5D

Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

Anaerobic Waste Treatment Facility,
W77-12956 1024 5D

MIXING-CELL MODELS

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

MIXING LENGTH

River and Cooling Water Temperature Fluctuations,
W77-03834 1008 5B

MOBILE BARRIER

The Response of an Estuary to the Closure of a Mobile Barrier; Richmond Barrier on the Upper Thames Estuary,
W77-07366 1015 2L

MOBILE BAY (ALA)

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

MOBILE FACILITIES

Investigation of the Physical Feasibility of Mobile Fish Processing Plants,
W77-03558 1007 6B

MOCHOCIDAE

Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

MODE OF ACTION

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

Structure-Activity Relationships of DDT Analogs in a Non-Target Organism. Lethal and Sublethal Effects of Brook Trout Fingerlings,
W77-01315 1003 5C

An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Effect of Herbicides on Photosynthetic Electron Transport and on the Growth of the Alga Scenedesmus Quadricauda,
W77-10143 1021 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Physiological Characteristics of Mercury Uptake by Two Estuarine Species,
W77-12007 1023 5B

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

MODEL BUILDING

Towards System Models for Water Resource Management,
W77-07544 1015 6A

MODEL COMPARISONS

A Procedure for the Selection of Objective Functions for Hydrologic Simulation Models,
W77-10767 1021 2E

MODEL INSTITUTE PROGRAM

Water Resources Technology Transfer -- A Guide,
W77-04346 1009 10F

MODEL LEGISLATION

Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

MODEL ORDINANCES

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

MODEL PARAMETERS

Physical and Economic Parameters for Planning Regional Wastewater Treatment Systems,
W77-04010 1008 5D

MODEL STUDIES

Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

Equalization of Time Variable Waste Loads,
W77-00052 1001 5D

Stochastic Considerations in Thunderstorm Modeling,
W77-00087 1001 2B

Medium Term Fluctuations of Rainfall in Southeastern England,
W77-00092 1001 2B

Environmental Effects of Alternative Energy Developments in the Northern Great Plains,
W77-00115 1001 6G

Numerical Simulation of the Arctic Ocean Circulation,
W77-00129 1001 2L

On Forced, Long Continental Shelf Waves on an f-Plane,
W77-00131 1001 2L

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

Numerical Estuarine Models for Water Quality Management in the Blackstone River-Providence River and the Taunton River-Mt. Hope Bay Complexes,
W77-00152 1001 5B

A Study of Some Effects of Vertical Shear on Thunderstorms,
W77-00168 1001 2B

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

Graphical Representation of Tricationic Exchanges Where One of the Cations is the Proton,
W77-00304 1001 2G

The Impact of Man on the World Nitrogen Cycle,
W77-00312 1001 5A

A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

Energy Balance Computations of Snowmelt in a Subarctic Area,
W77-00373 1001 2C

Similitude in Coastal Engineering,
W77-00380 1001 8B

Estimation and Simulation of Sheet Runoff,
W77-00439 1001 4A

Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

One-Dimensional Simulation of Aquifer System Compaction near Pixley, California: 2. Stress-Dependent Parameters,
W77-00490 1001 2F

Screening Models in Water Resources Planning, Part III,
W77-00535 1002 6A

Statistical Models for Precipitation,
W77-00537 1002 2B

On Radioactive Waste Management: An Analysis of the Parameters Controlling Subsurface Contaminant Transfer,
W77-00551 1002 5B

Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

Seasonal Snow Accumulation, Melt and Water Input--A New England Model,
W77-00646 1002 2A

Ice-Bearing Cumulus Cloud Evolution: Numerical Simulation and General Comparison Against Observations,
W77-00648 1002 2B

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

Research for the Development of Guidelines for Conducting and Analyzing an Environmental Water Quality Study to Determine Statistically Meaningful Results,
W77-00677 1002 7B

Watershed Erosion Model Validation for Southwest Iowa,
W77-00778 1002 4D

Sediment Yield from Construction Sites,
W77-00780 1002 4C

Simulating Erosion Dynamics with a Deterministic Distributed Watershed Model,
W77-00788 1002 4D

Water and Sediment Routing from Small Watersheds,
W77-00790 1002 4D

The Hydrologic and Sediment Processes in Natural Watershed Areas,
W77-00792 1002 4D

Design and Performance of Rock Revetment Toes,
W77-00807 1002 8D

Model Study of the Drag Coefficient of a Streambed Particle,
W77-00816 1002 2J

Digital Simulation of Aggradation and Degradation in Natural Streams,
W77-00818 1002 2J

Characteristics of Stable Natural Channels and Their Relation to Channel Design,
W77-00828 1002 8B

Model Study of Riverbed Material in Canyon Ferry Dam Spillway Stilling Basin,
W77-00834 1002 2J

Patterns of Scour and Fill in Pool-Rapid Rivers,
W77-00837 1002 2J

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

Flood Envelopes and Frequencies for the Brisbane River (Australia),
W77-00942 1002 4A

Hydrology of Flood Mitigation Measures in the Pahang River Basin, Malaysia - A Case Study,
W77-00946 1002 4A

The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

Model for a Study,
W77-00971 1002 2L

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Future Direction of Urban Water Models,
W77-01071 1003 5G

Unsteady Groundwater Flow Beneath Strip Oceanic Islands,
W77-01143 1003 2F

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

Comparison of Two Mathematical Models of Surface Runoff,
W77-01334 1003 2E

Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W77-01424 1003 2D

A Three-Dimensional Numerical Model of Ice Sheets: Tests on the Barnes Ice Cap, Northwest Territories,
W77-01610 1004 2C

Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

Sedimentary Model for Intertidal Mudflat Channels, with Examples from the Solway Firth, Scotland,
W77-01629 1004 2L

A Model Study of the Effects of Artificial Recharge,
W77-01883 1004 4B

The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

A Preliminary Tidal Exchange Experiment in Masset Inlet,
W77-01916 1004 2L

On the Development of a Seasonal Change Sea-Ice Model,
W77-01925 1004 2C

Probability Distribution of Concentrations Measured in the Wake of a Continuous Point Source in Coastal Currents,
W77-01927 1004 2H

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Mathematical Modeling for Water Quality Management in Streams Under Unsteady Hydraulic Conditions,
W77-01946 1004 5B

A Drawdown Prediction Model Based on Regression Analysis,
W77-02015 1004 4B

Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

A Submodel for Nitrogen Release from Sediments,
W77-02099 1005 5B

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

A Mixed-Dimension Kinematic Estuarine Model,
W77-02131 1005 2L

A Comparison of Lumped-Parameter and Diffusional Models Describing the Effects of the Outlet Boundary Conditions on the Mixing in Flow Systems,
W77-02147 1005 2L

Swimming of Slender Fish in a Non-Uniform Velocity Field,
W77-02155 1005 2L

Program Report-FY 1975, Atmospheric and Geophysical Sciences Division, Physics Department.
W77-02157 1005 2B

Theoretical Monochromatic-Wave-Induced Currents in Intermediate Water with Viscosity and Nonzero Mass Transport,
W77-02159 1005 2L

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

A Model for the Simultaneous Production and Diffusion of Ferrous Iron in Submerged Soils,
W77-02278 1005 2G

A Thermodynamic Model for Predicting the Formation, Stability, and Weathering of Common Soil Minerals,
W77-02285 1005 2G

Simulation of Root-Zone Water and Deep Seepage to a Water Table,
W77-02295 1005 2G

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

Predicted and Observed Temperature and Water-Quality Changes of Lakes and Reservoirs,
W77-02304 1005 2H

Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

The Application of Fracture Mechanics to the Problem of Crevasse Penetration,
W77-02461 1005 2C

An Evaluation of Parameters for the Theoretical Distribution of Periods and Amplitudes of Sea Waves,
W77-02479 1005 2H

The Survival of Ice Particles Falling From Cirrus Clouds in Subsaturated Air,
W77-02488 1005 2B

Evolution of Raindrop Spectra with Collision-Induced Breakup,
W77-02489 1005 2B

Maryland Highway Drainage Study: Volume III - A Linked System Model for the Synthesis of Hydrographs in Urban Areas,
W77-02492 1005 4C

Maryland Highway Drainage Study: Volume VI - An Experimental Examination of the Subsurface Drainage of Roadways,
W77-02493 1005 4C

Evapotranspiration Model Tested for Soybean and Sorghum,
W77-02550 1005 2D

Economic Models of Water Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Storm Water Management Model Study, Volume I.
W77-02743 1006 5B

Storm Water Management Model Study, Volume II.
W77-02744 1006 5B

Urban Hydrological Modeling and Catchment Research in Canada,
W77-02754 1006 2A

Urban Drainage Model Comparison for a Catchment in Halifax, Nova Scotia,
W77-02764 1006 2A

A Simple Dispersion Model of the Mean Concentration Field in the Western and Central Basins of Lake Erie,
W77-02795 1006 2H

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

Heat and Mass Transfer in Models of Undeveloped Geothermal Fields,
W77-02805 1006 4B

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

Resistance Equation for Alluvial-Channel Flow,
W77-02971 1006 8B

Flume Studies with Fine and Coarse Sands,
W77-02976 1006 2J

Convective Model of Longitudinal Dispersion,
W77-02988 1006 5B

Dispersion--Mississippi River Below Baton Rouge, La.,
W77-02989 1006 5B

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

Beach Processes, Perrien County, Michigan,
W77-03095 1007 2J

Radio-Echo Layers and the Recent Stability of the West Antarctic Ice Sheet,
W77-03100 1007 2C

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

Application of a Model for Layout and Design of Sewer Systems,
W77-03133 1007 5B

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

Calibration of a Thermal Enrichment Model for Shallow, Barricaded Estuaries,
W77-03171 1007 5B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Effects of a Breakwater on Nearshore Currents Due to Breaking Waves,
W77-03297 1007 8B

Allatoona Lake, Destratification Equipment Test, Appendix D, Effects of Artificial Destratification on Temperature and Dissolved Oxygen in Allatoona Reservoir.
W77-03310 1007 5G

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

Use of Hybrid Computer Model in Resource Planning,
W77-03523 1007 6A

A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay,
W77-03556 1007 5B

On Realism and Generality of Bio-Accumulation Models. Towards a General Methodology,
W77-03680 1008 5B

Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

The Ottawa River Project,
W77-03683 1008 5B

Theoretical Model of River Ice Jams,
W77-03745 1008 2C

Runoff Files for Flood Hydrograph Simulation,
W77-03748 1008 2E

A Numerical Investigation of the Circulation in the Norwegian Sea,
W77-03750 1008 2L

Mean Circulation in Shallow Seas,
W77-03753 1008 2L

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

Numerical Models for the Prediction of Wave Set-Up and Nearshore Circulation,
W77-03769 1008 2L

A Comparison of Modeling and Statistical Evaluation of Hydrologic Change,
W77-03800 1008 4D

Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

Evaporation and Advection I: Evaporation from Extensive Homogeneous Surfaces,
W77-03859 1008 2D

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Preliminary Digital Model of Ground-Water Flow in the Madison Group, Poweder River Basin and Adjacent areas, Wyoming, Montana, South Dakota, North Dakota, and Nebraska,
W77-03882 1008 2F

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

Modeling and Information Handling in Environmental Science,
W77-03926 1008 5G

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Examination of Environmental Policies Using Production and Pollution Microparameter Distributions,
W77-03961 1008 6G

Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

Control of Fjordic Deep Water Renewal by Runoff Modification,
W77-03975 1008 2L

Spectra and Coherence of Wind-Generated Internal Waves,
W77-03982 1008 2L

Numerical Model Studies of the Tides Between Vancouver Island and the Mainland Coast,
W77-03984 1008 2L

Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

Stochastic Models of Sediment Motion on Flat Bed,
W77-03997 1008 2J

Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

Radial Movement of Saturated Zone Under Constant Flux: Theory and Application to the Determination of Soil-Water Diffusivity,
W77-04249 1009 2G

Application of a Three-Dimensional Model to Computations of Storm Surges in the Black Sea,
W77-04260 1009 2B

Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Cleaner: The Lake George Model,
W77-04495 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Introductory Remarks on the State Space Modeling of Water Resource Systems,
W77-04506 1009 6A

Evaluation of Water Quality Models: A Management Guide for Planners,
W77-04507 1009 5G

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

A Systems Analysis Model for Calculating Radionuclide Transport Between Receiving Waters and Bottom Sediments,
W77-04516 1009 5B

Why Simulation,
W77-04725 1010 2E

A Distributed Converging Overland Flow Model 1. Mathematical Solutions,
W77-04744 1010 2E

A Distributed Converging Overland Flow Model 2. Effect of Infiltration,
W77-04745 1010 2A

The Different Forms of Moisture Profile Development During the Redistribution of Soil Water After Infiltration,
W77-04749 1010 2G

A Note on Long Waves in Shallow Channels with Running Water,
W77-04752 1010 2E

Periodic Solutions of a Nonlinear Diffusion Equation Used in Groundwater Flow Theory: Examination Using a Hele-Shaw Model,
W77-04761 1010 2F

The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

Computation of Solar Radiation From Sky Cover,
W77-04772 1010 2B

The Drift and its Ecological Significance: Experimental Investigation on Ecdyonurus Venosus (Fabr.) in a Stream Model, (In German),
W77-04865 1010 5B

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

A Numerical Study of Confined-Unconfined Aquifers Including Effects of Delayed Yield and Leakage,
W77-04882 1010 2F

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

Infiltration Through Soil with a Slightly Permeable Buried Membrane,
W77-04887 1010 2G

Quantifying the Natural Flushout of Alluvial Aquifers,
W77-04889 1010 5B

Micro-Relief Surface Depression Storage: Analysis of Models to Describe the Depth-Storage Function,
W77-04895 1010 2G

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

Hydrologic Model of a Wetland Forest--Details of Construction,
W77-05115 1011 4D

A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

A Note on the Synchronism of Highly Correlated Lakes,
W77-05142 1011 2H

Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

Determination of Storm Velocities as an Aid to the Quality Control of Recording Raingauge Data,
W77-05146 1011 2B

Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

A Distributed Converging Overland Flow Model 3. Application to Natural Watersheds,
W77-05168 1011 2E

Numerical Predictions of Two-Dimensional Transient Groundwater Flow by the Method of Characteristics,
W77-05173 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Modeling Monthly Hydrologic Persistence,
W77-05177 1011 2E

A Variable Source Area Model of the Rainfall-Runoff Process Based on the Watershed Stream Network,
W77-05178 1011 2A

An Evaluation of the Practicality and Complexity of Some Rainfall and Runoff Time Series Models,
W77-05179 1011 2A

A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

A Simple Case of Conjunctive Surface-Ground-Water Management,
W77-05198 1011 4B

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

A Dynamic Model and Computer Compatible Control Strategies for Waste Water Treatment Plants,
W77-05322 1011 5D

A Stochastic Approach to Snowmelt Runoff Forecasting,
W77-05323 1011 2C

Language for Modeling Hydrobiological Processes, (In Russian),
W77-05329 1011 5B

Engineering, Sanitary and Municipal Modeling, Identification and Control of a Dynamic and Stochastic Chemical Biological Process,
W77-05330 1011 5D

The Concise Formulation of Diffusive Sorption of Water in a Dry Soil,
W77-05340 1011 2G

Hysteretical Models for Prediction of the Hydraulic Conductivity of Unsaturated Porous Media,
W77-05344 1011 2G

Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

An X-Z Hydraulic/Thermal Model for Estuaries,
W77-05358 1011 5B

Flow in a Soil Layer Underlined by an Impermeable Membrane,
W77-05361 1011 2G

Simulation of Soil Water Dynamics in Layered Soils,
W77-05362 1011 2G

Experimental Study of Wetting front Instability Induced by Sudden Change of Pressure Gradient,
W77-05433 1011 2G

Calculating Evaporation from Native Grassland Watersheds,
W77-05442 1011 2D

Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

Two-Dimensional Air-Bubble Plume,
W77-05446 1011 8B

Potential Influence of Thermal Effluents on the Production and Water-Use Efficiency of Mangrove Species in South Florida,
W77-05546 1011 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Rederivation of the Saturation Range in the Frequency Spectrum of Wind-Generated Gravity Waves,
W77-05802 1012 2L

Thermal Convection in a Cavernous Aquifer,
W77-05951 1012 2F

Shot Noise Models for the Generation of Synthetic Streamflow Data,
W77-05955 1012 2E

Operational Assessment of Hydrologic Models of Long-Term Persistence,
W77-05957 1012 2E

Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

The 1974 Skywater Workshop,
W77-05976 1012 3B

Models in Biological Wastewater Treatment: Objectives, Results, Applicability,
W77-05980 1012 5D

A Water Management Model for High Water Table Soils,
W77-05983 1012 2G

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

Multistation, Multiyear Synthesis of Hydrologic Time Series by Disaggregation,
W77-06008 1012 2A

Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W77-06010 1012 2A

Predictive Water Demand Model for Central and Southern Florida,
W77-06047 1012 6D

Physical and Economic Parameters for Planning Regional Waste Water Treatment Systems,
W77-06171 1013 5D

Design Principles of Activated Carbon-Filled Adsorption Columns for Waste Water Treatment (Zasady projektowania kolumn sorpcyjnych z weglem aktywnym do oczyszania sciekow),
W77-06194 1013 5D

Distribution of Wind-Driven Currents in Bodies of Water and Estimation of the Transport of Water by them,
W77-06306 1013 2H

Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Utilizing a Digital Model to Determine the Hydraulic Properties of a Layered Aquifer,
W77-06333 1013 2F

The Algebraic Technological Function - A Mechanism for Integrating Physical and Economic Factors in Groundwater Management,
W77-06339 1013 4B

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

Investigation of the Effects of Nonhomogeneous (or Nonstationary) Behavior on the Spectra of Atmospheric Turbulence,
W77-06678 1014 2B

Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

Optimal Oil Tanker Size with Regard to Environmental Impact of Oil Spills,
W77-06702 1014 5G

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

Optimal Investment in Pollution Control Capital in a Neoclassical Growth Context,
W77-06705 1014 6G

Observations of Wind-Generated Waves on Variable Current,
W77-06896 1014 2L

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

Analog-Model Simulations for Secondary Canal Controls and Forward Pumping Water-Management Schemes in Southeast Florida,
W77-06968 1014 4B

Application of Digital Modelling to the Prediction of Radioisotope Migration in Groundwater,
W77-06981 1014 5B

The Effect of High Purity Oxygen on the Activated Sludge Process,
W77-07043 1014 5D

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

Introduction to Urban Storm Water Runoff Models,
W77-07071 1014 5B

The WRE Storm Model,
W77-07073 1014 5B

Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

A Nonlinear Multilevel Transportation Model for Water Resource-Water Quality Management,
W77-07096 1014 5B

On-Line Adaptive Control for Combined Sewer Systems,
W77-07100 1014 5D

Suction Head at Wet Front in Unsaturated-Flow Problems--A New Definition,
W77-07144 1015 2G

Finite-Element Analysis of Groundwater Flow in Multiaquifer Systems, I. The Behavior of Hydrological Properties in an Aquitard While Being Pumped,
W77-07148 1015 2F

Analysis of Flow Against Dispersion in Porous Media,
W77-07150 1015 2F

Calculation of the Leaky Aquifer Function,
W77-07156 1015 2F

A Reconsideration and a Generalization of Lawrance and Fiering Two-Station Models,
W77-07157 1015 2E

Design Criteria for Hydrologic Extremes,
W77-07165 1015 8B

The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Parameterization of Depositional Ice Growth,
W77-07171 1015 2B

Transports in Lake Superior,
W77-07176 1015 5B

Water Quality and Chemical Modeis,
W77-07246 1015 5C

Physical Modeling of Combined Forced and Natural Convection in Wet Geothermal Formations,
W77-07303 1015 4B

Parameter Study of Variables Affecting the Performance of a Hydraulic Pipeline Dredge Model,
W77-07346 1015 8D

Simulation of a Series of Daily Areal Mean Rainfalls for a Basin Using Rainfall Observations at a Reference Station Located Outside the Basin,
W77-07356 1015 2B

Dynamics of O2 and CO2 Exchange, Photosynthesis, and Respiration in Rivers from Time-Delayed Correlations with Ideal Sunlight,
W77-07364 1015 5C

Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

Manning N and the Overland Flow Equation,
W77-07371 1015 2E

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

Analog-Model Analysis of Regional Three-Dimensional Flow in the Ground-Water Reservoir of Long Island, New York,
W77-07479 1015 2F

Decision-Making for Environmental Resources Management,
W77-07542 1015 6G

Towards System Models for Water Resource Management,
W77-07544 1015 6A

Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Generation of Multivariate Synthetic Flows,
W77-07610 1016 2A

Problems Encountered in Synthetic River Flow Generation Procedures,
W77-07657 1016 2A

Multidimensional Statistic Modelling of Hydrological Processes on the Basis of Structural Analysis of the Empirical Hydrographs of Runoff,
W77-07662 1016 2A

Structural Relation Between Parametric and Stochastic Hydrology Models,
W77-07664 1016 2A

Significance Tests of Periodicity in Hydrological Time Series,
W77-07665 1016 2A

A Simple Stochastic Modelling of Hurst's Law,
W77-07666 1016 2E

In Hydrology h is a Household Word,
W77-07667 1016 2A

Mathematical Models Resulting from Statistical Analysis of the Mean Monthly Flow,
W77-07669 1016 2E

Flood Frequency Studies of Rivers in the Federal Republic of Germany,
W77-07670 1016 2E

Stochastic Analysis of Short-Time Rainfalls,
W77-07671 1016 2B

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Determination of the Degree of Protection Offered by Flood Control Systems on the Basis of Distribution Functions,
W77-07673 1016 8B

Statistical Analysis Applied to the Study of the Components of a Flood Wave,
W77-07674 1016 2E

A Multivariate Mathematical Model of Monthly River Flow,
W77-07675 1016 2E

Finding Regularities in Long-Term Streamflow Fluctuations by Analysis of Hydrological Ensembles,
W77-07676 1016 2E

Optimal Spatial Interpolation and Its Errors in the Case of Various Distances Between Observation Points or Watershed Centres,
W77-07677 1016 4D

Use of Cross-Correlation Techniques for Determining the Relationship Between Groundwater Levels and Sources in the Nile Delta Area,
W77-07679 1016 2F

Time and Frequency-Domain Identification of a Casual Bivariate Stochastic Process,
W77-07680 1016 2E

Model of Salt Flow in Soil with a Source-Sink Term,
W77-07761 1016 2G

Simulation of Impoundment Terrace Hydraulics,
W77-07767 1016 8B

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Study of the Rio Grande, Bolivia Highlights Some Basic Questions About Simulation,
W77-07945 1016 2A

Process Technological Background Regarding New Protective Regulations for Water Bodies-Results of Experiments on Nitrification and Phosphorus Elimination in Zurich and Bern. II. Process Technological Background of Nitrification in Activated Sludge Plants (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutz-Anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. II. Verfahrenstechnische Grundlagen der Nitrifikation in Belebtschlammanlagen),
W77-07953 1016 5D

Three Case Studies on the Application of the Storm Water Management Model,
W77-07955 1016 5B

Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

Penetration Depth of Closely Spaced Water-Free Crevasses,
W77-08052 1016 2C

Energy Exchange at a Glacier Surface: An Alternative to Aerodynamic Methods of Measurement,
W77-08053 1016 2C

A Theoretical Framework for the Description of Estuaries,
W77-08057 1016 2L

Application of Thermal Scanning to the Study of Transverse Mixing in Rivers,
W77-08071 1016 5B

Remote Sensing Inputs to Water Demand Modeling,
W77-08080 1016 7B

Transient Three-Dimensional Circulation of Lakes,
W77-08181 1017 2H

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

Lake Erie International Jetport Model Feasibility Investigation; The Wind-Driven Currents and Contaminant Dispersion in the Near-Shore of Large Lakes,
W77-08220 1017 5B

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

A New Climatic Model for Glacier Behavior of the Austrian Alps,
W77-08235 1017 2C

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Digital-Computer Model of the Sandstone Aquifer in Southeastern Wisconsin,
W77-08478 1017 2F

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

A Predictive Phosphorus Model for Lakes - Sensitivity Analysis and Applications,
W77-08499 1017 5C

Water Quality Impacts of Urbanization--A Methodology,
W77-08514 1017 5B

Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

Some Computational Aspects of One- and Two-Dimensional Unsteady Flow Simulation by the Method of Characteristics,
W77-08745 1018 2E

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

Effects of Spatial Variability of Soil Hydraulic Properties in Water Budget Modeling,
W77-08825 1018 2G

The Design of a System for Collecting Leachate from a Lined Landfill Site,
W77-08827 1018 5G

Water and Ice Potentials in Frozen Soils,
W77-08828 1018 2C

Simulation of Two-Dimensional Contaminant Transport with Isoparametric Hermitian Finite Elements,
W77-08829 1018 5B

A Mathematical Model Study of Fresh-Water Lenses,
W77-08837 1018 2F

Digital Model Studies of Steady-State Radial Flow to Partially Penetrating Wells in Alluvial Plains,
W77-08838 1018 2F

Design Efficiency of Stormwater Detention Basins,
W77-08841 1018 4D

Density Currents and Their Applications,
W77-08844 1018 5B

Surface Particle Orbits in Uniform Waves,
W77-08845 1018 8B

Induced Vertical Mixing in a Stratified Impoundment by a Subsurface Warm Water Discharge,
W77-08929 1018 5B

A Predictive Phosphorus Model for Lakes - Development and Testing,
W77-08930 1018 5C

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

Principles of Graphical Gradually Varied Flow Model,
W77-09015 1018 2E

Estimating Wave Generation on Restricted Fetches,
W77-09021 1018 2L

Infiltration Equations for Simple Soil Systems,
W77-09025 1018 2G

Transient Analysis of Phreatic Aquifers Lying Between Two Open Channels,
W77-09026 1018 2F

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

Ground Water Model for the Island of Anholt, Denmark,
W77-09030 1018 2F

A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

The Third London Airport Study,
W77-09037 1018 2L

Natural Stream Temperature Variations in a Catchment,
W77-09039 1018 5B

Dispersion Measurement on the Danube,
W77-09040 1018 5B

Solute Travel Times to Wells,
W77-09042 1018 5B

Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

Optimal Estimation in Stream Quality Modeling,
W77-09052 1018 5B

Thermal Loading of Natural Streams,
W77-09068 1018 5B

A Sediment Transport Model for Straight Alluvial Channels,
W77-09104 1019 2J

Theoretical Probability Distribution of Critical Hydrologic Events by the Partial-Duration Series Method,
W77-09109 1019 2B

Criterion to Choose Step Length for Some Numerical Methods Used in Hydrology,
W77-09110 1019 2E

Optimal Filtering Techniques for Hydrological Forecasting,
W77-09111 1019 2E

Validation of an Axisymmetric Pseudo-Unconfined Time-Variant Digital Model,
W77-09112 1019 2F

Profile Desaturation During Sediment Deposition in a Groundwater Recharge Trench,
W77-09115 1019 4B

Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

An Operational Approach to Preserving Skew in Hydrologic Models of Long-Term Persistence,
W77-09127 1019 2A

The Utility of Computers in Landscape Planning, the Selection and Application of a Computer Mapping and Assessment System for the Metropolitan Landscape Model (METLAND),
W77-09151 1019 6A

Urbanization and Flooding - An Example,
W77-09161 1019 4C

An Environmental Residual Allocation Model,
W77-09179 1019 5B

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

Modifications to Qual - II to Evaluate Wastewater Storage,
W77-09186 1019 5D

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

Adaptive Short-Term Water Demand Forecasting,
W77-09202 1019 6D

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

A Transport Kinetic Concept for Ion Uptake by Plants, III. Test of the Concept by Results from Water Culture and Pot Experiments,
W77-09315 1019 2I

Precipitable Water Vapor in Atmospheres Characterized by Temperature Inversions,
W77-09330 1019 2B

Sensitivity of Some Runoff Models to Errors in Rainfall Excess,
W77-09339 1019 2A

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Resources Allocation to Optimize Mining Pollution Control,
W77-09481 1019 5G

A Screening Model for Flood Control Planning,
W77-09595 1019 4A

Optimal Control of an Unsteady State Continuous Activated Sludge System: A Comparison of Digital Computer Simulation Vs Pilot Plant Results,
W77-09597 1019 5D

The Consequences of Impoundment on an Arctic Char Lake System. An Analysis by Simulation Modelling,
W77-09616 1020 5B

A Food Web Model for Lake Michigan: Part I-Justification and Development of the Model,
W77-09631 1020 5C

An Electric Analog and Digital Computer Model of the Chipuxet Ground Water Aquifer, Kingston, Rhode Island,
W77-09637 1020 2F

Predicting 2,4,5-T Movement in Soil Columns,
W77-09649 1020 5B

A Model of the Annual Cycle of Temperature in a Frontal Region of the Celtic Sea,
W77-09708 1020 2L

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

A Laboratory Model to Investigate the Soil Moisture Conditions on a Draining Slope,
W77-09712 1020 2G

A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

Movement of Snow Avalanches,
W77-09716 1020 2C

Three-Layer Circulations in Estuaries and Harbors,
W77-09723 1020 2L

A Mathematical Model for Water Quality in a Coastal Region in Terms of Sea Bottom Waste Deposits (Kaitei osenbusshitsu nado no eikyo o koryo shita kaiiki no suishitsu no yosokumoderu no kaihatsu ni kansuru kenkyu),
W77-09911 1020 5B

Gravity Thickening of Water-Treatment-Plant Sludges,
W77-09912 1020 5D

The Identification and Adaptive Prediction of Urban Sewer Flows,
W77-09914 1020 5B

The Fate of Pollutants in Subsurface Environments,
W77-09915 1020 5B

Evaluation of an Evapotranspiration Model for Corn,
W77-09941 1020 2D

Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

Computation of Unsteady Flows in Rivers and Estuaries by the Method of Characteristics,
W77-09993 1020 2E

Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow 1. Theory and Numerical Properties,
W77-10008 1020 2F

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

Evidence for Baroclinic Instability of the Norwegian Current,
W77-10107 1021 2L

Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

Parameterization of Surface Evaporation Rate for Use in Numerical Modeling,
W77-10111 1021 2D

Stability Analysis of Floating and Submerged Ice Floes,
W77-10119 1021 2C

The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

National and Interregional Models of Land Use, Water Allocation, Soil Loss Control, and Agricultural Policy,
W77-10171 1021 6A

Stochastic Models for Precipitation,
W77-10180 1021 2B

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

End Depth Under Zero-Inertia Conditions,
W77-10302 1021 8B

Analytical Model of Dispersion in Tidal Fjords,
W77-10303 1021 5B

Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

A Comparison of Numerical Simulation Models for One-Dimensional Infiltration,
W77-10310 1021 2G

Laterally Confined, Steady Flows of Water from Sources and to Sinks in Unsaturated Soils,
W77-10311 1021 2G

Breaking Waves,
W77-10317 1021 8B

Operating Experiences on Petrochemicals Waste Water Treatment Plant of Gujarat Aromatics Project at Jawaharnagar,
W77-10351 1021 5D

An Ecosystem Approach to the Planning of Water Pollution Control,
W77-10367 1021 5G

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

Consequences of Groundwater Extraction on Evapotranspiration and Saturated-Unsaturated Flow,
W77-10422 1021 4B

Mathematical Modelling of the Return Waters Runoff,
W77-10423 1021 4B

The Application of a Deterministic Model to a Semiarid Basin (Application du Modele a Discretisation Spatiale a un Bassin Versant Semi-Desertique),
W77-10424 1021 2A

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

A Hydrological Model with Physically Realistic Parameters,
W77-10428 1021 2A

Application of Dynamic Programming to Model Tri-Dimensional Flow in Porous Media (Application de la Programation Dynamique aux Modeles Tridemensionnels de Calcul des Ecoulements dans les Milieux Poreux),
W77-10429 1021 2F

Mathematical Simulation Models of Hydrological Processes in Turkey,
W77-10430 1021 2A

Stochastic Identification of Nonlinear Hydrological Systems,
W77-10431 1021 2A

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

Statistical Modelling of River Flow by the Monte Carlo Method and Evaluation of Distribution Parameters and Quantities,
W77-10433 1021 2E

Characteristics of Rainfall Cell Patterns in the Southeast Coastal Plain Areas of the USA, and a Computer Simulation Model of Thunderstorm Rainfall,
W77-10435 1021 2B

Stochastic Properties of the Processes Transformed in Linear Hydrological Systems,
W77-10436 1021 2A

Application of Conceptual Rainfall-Runoff Models in a Complex Program,
W77-10437 1021 2A

Model for Evaluating the Effects of Dikes on the Water and Salt Balance of Great Salt Lake, Utah,
W77-10563 1021 2H

Numerical Modeling of Subsurface Radioactive Solute Transport from Waste-Seepage Ponds at the Idaho National Engineering Laboratory,
W77-10570 1021 5B

The Prediction of the Rainfall-Runoff Behavior in Urban Areas (Zur Prognose des Niederschlag-Abflussverhaltens in urbanen Einzugsgebieten),
W77-10581 1021 4A

A Model for Aluminum Phosphate Precipitation,
W77-10584 1021 5D

Identification of Structure and Parameters of Hydrologic Runoff-Models (Identifikation von Struktur und Parametern hydrologischer Abflussmodelle),
W77-10594 1021 2E

Biological Regeneration of Powered Activated Carbon Added to Activated Sludge Units,
W77-10601 1021 5D

Heat Transfer Characteristics of Melting and Refreezing a Drill Hole Through an Ice Shelf in Antarctica,
W77-10655 1021 2C

Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Modeling of Unconfined Ground-Water Systems,
W77-10661 1021 2F

An All Digital Approach to Snow Areal Mapping and Snow Modeling,
W77-10678 1021 2C

Microwave Emissions from Dry and Wet Snow,
W77-10687 1021 2C

Water Pollution and Human Health,
W77-10751 1021 5C

Dry Deposition Loading of Lake Michigan by Airborne Particularate Matter,
W77-10758 1021 5A

Pump Testing in Heterogeneous Aquifers,
W77-10764 1021 2F

Permissible Mesh Spacing in Aquifer Problems Solved by Finite Differences,
W77-10765 1021 2F

Computer Modelling of Regional Groundwater Systems in the Confined-Unconfined Flow Regime,
W77-10766 1021 2F

A Procedure for the Selection of Objective Functions for Hydrologic Simulation Models,
W77-10767 1021 2E

Investigation of the Hydrological Balance in a Peat Swamp,
W77-10768 1021 2F

Some Remarks on the Statistical Theory of Extreme Values,
W77-10786 1021 2A

Stochastic Structures of the Local Pattern of Precipitation,
W77-10787 1021 2B

Floods and Droughts,
W77-10788 1021 2E

Statistical Applications in Groundwater Systems,
W77-10789 1021 2F

Watershed Sediment Yield,
W77-10790 1021 4D

Modeling of Stream Geometry and Its Applications,
W77-10791 1021 2E

Stochastic Aspects of Incipient Grain Motion on Riverbeds,
W77-10792 1021 2J

Sediment Transport Models,
W77-10793 1021 2J

Deterministic and Stochastic Approaches for Modelling of Longitudinal Dispersion in a Turbulent Open Channel Flow,
W77-10794 1021 5B

Dispersion of Sediment Particles,
W77-10795 1021 2J

Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

Mass Transfer Studies in Sorbing Porous Media I. Analytical Solutions,
W77-10801 1022 2G

Determination of Sediment Yield by Transferring Rainfall Data,
W77-10804 1022 2J

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

Regional Environmental Management Modeling,
W77-10842 1022 6A

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

Finite-Difference Model of Two-Dimensional, Single-, and Two-Phase Heat Transport in a Porous Medium--Version I,
W77-10862 1022 2A

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Steady State Bi-Level Subsurface Drainage Theory for Soils of Varying Hydraulic Conductivity,
W77-10961 1022 2F

U.B.C. Watershed Model,
W77-10969 1022 2A

Modeling Nitrate Movement and Dissipation in Fertilized Soils,
W77-10975 1022 5B

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Hysteretic Steady State Soil Water Profiles,
W77-11212 1022 2G

Advances in Box-Jenkins Modeling, 1. Model Cconstruction,
W77-11214 1022 2A

Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

Modeling Soil Water Hydrology Under A Post Oak (Quercus Stellata Wangenh.) - Shortleaf Pine (Pinus Echinata Mill.) Stand in East Texas,
W77-11228 1022 2G

The Cequeau Model: Description and Examples of Its Use in Problems Related to Water Resource Management,
W77-11239 1022 2A

Preliminary Study; The Influence of Construction Step Sequence and Nonlinear Material Behavior on Cracking of Earth and Rock-Fill Dams,
W77-11240 1022 8D

Correlation Constraints for Generating Processes,
W77-11385 1022 2A

Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

Stochastic Point-Rainfall Simulation,
W77-11387 1022 2A

Evaluation of Resistance and Mass Transport Evapotranspiration Models Requiring Canopy Temperature Data,
W77-11396 1022 2D

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

Several Models for Water-Air Temperature Relationships of Some African Lakes,
W77-11577 1023 2H

Substantiation of the Priestley and Taylor Parameter Alpha = 1.26 for Potential Evaporation in High Latitudes,
W77-11599 1023 2D

Model of the Disturbances in Hydrological Sequences Based on the Method of Demodulation,
W77-11602 1023 2E

A Stochastic Model for the Simulation of Daily Flows,
W77-11603 1023 2E

Experimental Evaluation of a Crop Climate Simulation Model for Indian Corn (Zea Mays L.),
W77-11631 1023 3F

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Water-Quality Effects from Urban Runoff,
W77-11676 1023 5C

Sludge Processing to Optimize Digestibility and Energy Production,
W77-11709 1023 5E

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Salvaging an Old Sewage Plant Cuts Tertiary Treatment Costs.
W77-11751 1023 5D

Soil Water Modeling II: On Sensitivity to Finite Difference Grid Spacing,
W77-11795 1023 2G

Optimal Prediction of Ponding,
W77-11798 1023 2G

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

Internal Free Oscillations in Lake Ontario,
W77-11800 1023 2H

Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

A Three-Dimensional Model of Lake Ontario's Summer Circulation I. Comparison with Observations,
W77-11808 1023 2H

Ocean Surface Drift Velocities,
W77-11810 1023 2L

A Simple Model of Lake Ontario's Coastal Boundary Layer,
W77-11811 1023 2H

The Integrated Hydrological Catchment Model EGMO,
W77-11815 1023 2A

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

Percolation Theory of Residual Phases in Porous Media,
W77-11822 1023 2G

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

Application of a Two-Variable Mitscherlich Function in the Analysis of Yield-Water-Fertilizer Relationships for Corn,
W77-11961 1023 3F

Effect of Rainfall-Excess Determination on Runoff Computation,
W77-11986 1023 2B

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Methodology for Evaluating the Cost of Urban Stormwater Quality Management,
W77-12075 1023 6B

Digital Simulation of a Drainage Basin,
W77-12082 1023 2A

Linear and Nonlinear Models for Peak Flow Forecasting,
W77-12083 1023 4A

Designing Conceptual Catchment Models for Automatic Fitting Methods,
W77-12084 1023 2A

A Swampland Model,
W77-12085 1023 2E

Determination of Instantaneous Unit Hydrographs By Least Squares Polynomials,
W77-12086 1023 2E

Problems of Applying the Conceptual Model Developed for the Flat Catchments of Hungary,
W77-12087 1023 2A

Representation of a Catchment by a Network of Reservoirs,
W77-12088 1023 2A

A Multiple Input System Model for the Hydrological Basin,
W77-12089 1023 2A

Rainfall-Discharge Transformation Models May be Divided Into Two Catagories (Les Modeles Deterministes De Transformation Des Precipitations En Debit),
W77-12090 1023 2A

The Model of the Water Balance and Nutrient Uptake as a Basis for Hydrological, Agro-Hydrological and Other Projects,
W77-12091 1023 2A

Convective Storm Field Simulation for Distributed Catchment Models,
W77-12092 1023 2B

A Multi-Layer Model for Gravity Drainage of Unsaturated Soil,
W77-12093 1023 2F

Behaviour and Physical Stability of Sheetflow in Surface Runoff Models,
W77-12094 1023 2E

A Mathematical Model for Flood Wave Simulation Using Synthetic Rainfall Data for a Vast Watershed,
W77-12095 1023 2E

Natural Catchment Representation by a Series Model of Linear Channels-Part 1,
W77-12096 1023 2A

Natural Catchment Representation by a Series Model of Linear Channels-Part 2,
W77-12097 1023 2A

A New Method of Computation of the Suspended Sediment Load,
W77-12098 1023 2J

A Determinate Model for Runoff as a Nonlinear System,
W77-12099 1023 2E

Physico-Statistical Model of Rainfall Flood Formation and Determination of Its Parameters,
W77-12100 1023 2A

Deterministic and Stochastic Modelling of Floods in Mountain Regions,
W77-12104 1023 2A

Applied Principles of Catchment Simulation,
W77-12106 1023 2A

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

Groundwater Chemistry and the Transport Equations,
W77-12112 1023 2F

A Generalized Streamflow Simulation System,
W77-12113 1023 2A

Solution of the One-Dimensional Linear Moisture Flow Equation with Implicit Water Extraction Functions,
W77-12170 1023 2G

Modeling Soil Water Movement for Trickle Irrigation - Phase II,
W77-12256 1024 2G

On the Calculation of Tidal Currents in Homogeneous Estuaries,
W77-12297 1024 2L

Continental Shelf Currents in Tropical Storm Delia: Observations and Theory,
W77-12298 1024 2L

The Effects of a Variable Coriolis Parameter, Coastline Curvature and Variable Bottom Topography on Continental Shelf Waves,
W77-12299 1024 2L

Effects of Soil, Cover Crop, and Nutrient Source on Movement of Soil, Water, and Nitrogen Under Simulated Rain-Slope Conditions,
W77-12309 1024 2B

Evapotranspiration and Soil Water Movement Beneath the Root Zone of Irrigated and Nonirrigated Millet (Panicum Miliaceum),
W77-12315 1024 2D

Theoretical Drawdown Due to Simulated Pumpage from the Ohio River Alluvial Aquifer Near Siloam, Kentucky,
W77-12379 1024 4B

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

Derivation of Equations Describing Solute Transport in Ground Water,
W77-12381 1024 5B

Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

The Technical-Economic Model of Water Quality in the Sajo River (A sajo vizminosegi muszaki-kozgazdasagi modellje),
W77-12413 1024 5G

Pilot-Plant Experiments on Sewage Purification in an Activated Sludge System with a Selector (Poloprovozni Pokusy S Cistenim Mestske Odpadni Vody V Aktivacnim Systemu Se Selektorem),
W77-12423 1024 5D

The Effects of NTA on the Chlorine Demand of Various Types of Water,
W77-12480 1024 5C

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

Role of Models in Urban Stormwater Management Planning,
W77-12491 1024 5G

Quality of Urban Freeway Storm Water,
W77-12500 1024 5B

Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

Meteorological Regimes for the Classification of Aerospace Air Quality Predictions for NASA-Kennedy Space Center,
W77-12542 1024 5A

Maryland Highway Drainage Study: Volume IV. Overland Flow on Areas Subject to Infiltration Losses,
W77-12547 1024 4C

Maryland Highway Drainage Study: Volume V. A Dimensionless Hydrograph for Estimating Storm Runoff from Urban Areas,
W77-12548 1024 4C

Markov-Dependent Geometric Models for Weather Spells and Weather Cycles-A Study,
W77-12554 1024 2B

Adaptation of a General Circulation Model to Ocean Dynamics,
W77-12563 1024 2L

Time Scale and Molecular Weight Distribution Contributions to Dilute Polymer Solution Fluid Mechanics,
W77-12564 1024 8B

Beach Fill Stability and Borrow Material Texture,
W77-12566 1024 2J

Two-Dimensional Model of Erosion from a Watershed,
W77-12575 1024 4D

Resource Adequacy in Limiting Nonpoint Pollution,
W77-12615 1024 5B

A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

Models for Predicting the Impact of Irrigation on Soil Salinity,
W77-12731 1024 2G

A Conceptual Hydrosalinity Model for Predicting Salt Load in Irrigation Return Flows,
W77-12758 1024 5B

Hydrosalinity Modeling of Irrigation Return Flow in the Mesilla Valley, New Mexico,
W77-12759 1024 5B

Development and Evaluation of Evapotranspiration Models for Irrigation Scheduling,
W77-12779 1024 3F

Upper Bay Survey Vol. IV. Numerical Modeling,
W77-12786 1024 5B

Storm Water Management Model Study, Volume III, User's Manual.
W77-12792 1024 5B

Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

A Finite Element Distributed Catchment Model, I. Analytical Basis,
W77-12798 1024 2A

Head Gradient Control in Aquifers Used for Fluid Storage,
W77-12800 1024 4B

The Unsteady Groundwater Mound Below an Irrigation Ditch or Leaky Canal,
W77-12801 1024 2G

Numerical Analysis of Two-Dimensional Infiltration and Redistribution,
W77-12806 1024 2G

Simulation of Phosphorus Cycling in Semiarid Grasslands,
W77-12832 1024 2G

Experimental Modeling and Mathematical Description of Radionuclide Metabolism in the System 'Aqueous Medium-Hydrobionts', (In Russian),
W77-12993 1024 5B

MODELERS
Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

MODIFIED MERCALLI INTENSITY
An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

MODIFIED UNIVERSAL SOIL LOSS EQUATION
Sediment Yield Prediction Based on Watershed Hydrology,
W77-06656 1014 4D

MODINE MANUFACTURING COMPANY
Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

MODIOLUS DEMISSUS
Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

MODUFLEX SYSTEM
Moduflex Sewage Treatment Plants Provide the Answer to Growth,
W77-08588 1017 5D

MOGGILL CK. (QLD.)
The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

MOHAVE DESERT
Competition and Spacing in Plant Communities: The Northern Mohave Desert,
W77-02174 1005 2I

MOHAVE VALLEY (ARIZ-CALIF-NEV)
Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

MOHAWK RIVER BASIN (NY)
Hydrogeology of a Cavernous Limestone Terrane and the Hydrochemical Mechanisms of its Formation, Mohawk River Basin, New York,
W77-02022 1004 2F

MOIST CONVECTION
Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

MOISTURE AVAILABILITY
Water Flow in Wheat Seedlings After Small Water Deficits,
W77-02172 1005 2D

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects for Diversification,
W77-11628 1023 4D

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, IV. Grain Legumes,
W77-11987 1023 3F

MOISTURE CONTENT
Pore Volume Distribution and Curve of Water Content Versus Suction of Porous Body: 2. The Boundary Wetting Curve,
W77-00162 1001 2G

Soil Water Content and Evaporation Determined by Thermal Parameters Obtained from Ground-Based and Remote Measurements,
W77-01618 1004 2G

Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

Water Flow in Wheat Seedlings After Small Water Deficits,
W77-02172 1005 2D

Soil Moisture Distribution Under Wide-Bed, Narrow-Row, and Conventional-Row Cotton,
W77-03137 1007 3F

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

An Evaluation of Selected Instruments used to Measure the Moisture Content of Hardened Concrete,
W77-03295 1007 8F

The Influence of Soil Conditioners on the Liquid-Solid Contact Angles of Sands and Silt Loams,
W77-03626 1008 2G

Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Moisture Regime of Sandy Desert Soils, (In Russian),
W77-04795 1010 2G

Water Regime of Central Kara Kum Soils in Connection with Rangeland Afforestation, (In Russian),
W77-04855 1010 2G

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

Generalized Dependence of Moisture Pressure and Conductivity on Moisture Content in Uniform Mechanical Soil Fractions, (In Russian),
W77-06369 1013 2G

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Some Significant Regularities in Plant Hydroadaptation, (In Russian),
W77-06774 1014 3B

A Method of Evaluating a Field Water Capacity Using PF-3, (In French),
W77-06844 1014 2G

Water and Ice Potentials in Frozen Soils,
W77-08828 1018 2C

Water Exchange of Juicy Fruits of Trees and Bushes, (In Russian),
W77-09611 1020 2D

An Automatic Scanning Apparatus for Gamma Spectrometry for the Determination of the Moisture Content in Soil Columns, (In Dutch),
W77-09613 1020 2G

Determination of Hydraulic Parameters to Estimate Water Movement and Water Storage in Undisturbed Soil: Comparison of Field and Laboratory Methods, (In German),
W77-09624 1020 2G

Mathematical Description of Some Physical Snow Cover Characteristics,
W77-09717 1020 2C

The Nature of Changes in Bulk Density with Water Contents in Cracking Clay,
W77-09937 1020 2G

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

A Comparison of Operational and LANDSAT-Aided Snow Water Content Estimation Systems,
W77-10683 1021 2C

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

The Divergence of the Water Vapour Flux Over Southern Africa,
W77-11579 1023 2D

A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects for Diversification,
W77-11628 1023 4D

Observations on Algae of Some Arid and Semi-Arid Soils of Rajasthan,
W77-11869 1023 2G

Effect of Compaction and Moisture Content on Specific Heat and Thermal Capacity of Soils,
W77-12161 1023 2G

Solution of the One-Dimensional Linear Moisture Flow Equation with Implicit Water Extraction Functions,
W77-12170 1023 2G

The Use of Calibrated Paper Filters for Measuring to Total Soil Moisture Potential, (In Russian),
W77-12998 1024 2G

MOISTURE DEFICIT

Change in the Proportion of Organophosphorus Compounds in Cotton Variety 'Tashkent-2' Under the Effect of a Moisture Deficit, (In Russian),
W77-01603 1004 3F

Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Water Flow in Wheat Seedlings After Small Water Deficits,
W77-02172 1005 2D

Water Stress Induced Alterations of the Stomatal Response to Decreases in Leaf Water Potential,
W77-03140 1007 2I

Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

Yield Responses of Two Maize Cultivars Following Short Periods of Water Stress at Tasseling,
W77-03628 1008 3F

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

Soil Water Deficits Under Forested and Clear-cut Areas in Northern Arkansas,
W77-04254 1009 2G

Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

The Influences of Simulated Moisture Stress Conditions and Osmotic Substrates on Germination and Growth of Cultivated and Wild Safflowers,
W77-08460 1017 2I

Response of Oats to Water Deficit. I. Physiological Characteristics,
W77-11100 1022 2I

Response of Oats to Water Deficit. II. Growth and Yield Characteristics,
W77-11101 1022 2I

Tropical Agriculture: Crop Diversity and Crop Yields,
W77-12828 1024 3F

Regulation of Grain Yield by Photosynthesis in Maize Subjected to a Water Deficiency,
W77-12841 1024 3F

MOISTURE FLOW EQUATION

Solution of the One-Dimensional Linear Moisture Flow Equation with Implicit Water Extraction Functions,
W77-12170 1023 2G

MOISTURE HYSTERESIS

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

MOISTURE METERS

Studies on the Rates of Water Use of Dwarf Wheat and Their Relationship with Potential Values Based on the Climatological Approach,
W77-04314 1009 3F

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

MOISTURE STRESS

Leaf Water Potential and Stomatal Activity in Sorghum as Influenced by Soil Moisture Stress,
W77-01276 1003 2I

CO2 Compensation Point for Photosynthesis: Effect of Variable CO2 and Soil Moisture Levels,
W77-01899 1004 2I

Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Water Flow in Wheat Seedlings After Small Water Deficits,
W77-02172 1005 2D

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

Water Stress Induced Alterations of the Stomatal Response to Decreases in Leaf Water Potential,
W77-03140 1007 2I

Effect of Drought Stress Frequencies at Different Growth Stages on Corn Yield,
W77-03143 1007 3F

Effects of Soil-Moisture Regimes on the Growth of Barley,
W77-03216 1007 3F

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

Isolation and Characterization of Drought Tolerance in a Grain Sorghum (Sorghum Bicolor (L) Moench) Randommating Population,
W77-03623 1008 2I

Yield Responses of Two Maize Cultivars Following Short Periods of Water Stress at Tasseling,
W77-03628 1008 3F

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

The Influences of Simulated Moisture Stress Conditions and Osmotic Substrates on Germination and Growth of Cultivated and Wild Safflowers,
W77-08460 1017 2I

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Genotypic Responses in Sorghum to Drought Stress. III. Free Proline Accumulation and Drought Resistance,
W77-09297 1019 3F

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

Effect of Water Stress During Different Stages of Growth of Soybean,
W77-09302 1019 2I

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

On the Role of Leaf Water in Regulating Metabolism,
W77-11070 1022 2I

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Response of Oats to Water Deficit. I. Physiological Characteristics,
W77-11100 1022 2I

Response of Dryland Cotton Plant Growth, Soil-Water Uptake, and Lint Yield to Two Extreme Types of Tillage,
W77-11118 1022 3F

Performance of the Silver-Psychrometer for Measuring Leaf Water Potential in Situ,
W77-11388 1022 2I

Water Stress and Phenology in Wheat,
W77-11427 1022 3F

Effects of Irrigation History on Responses of Cotton to Subsequent Water Stress,
W77-11430 1022 3F

Crop Temperature Reveals Stress,
W77-11434 1022 2L

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Effect of Water Stress on 14CO2 Fixation and Translocation in Wheat During Grain Filling,
W77-12289 1024 3F

MOISTURE TENSION

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

A Compaction Apparatus for the Preparation of Soil Cores of Different Bulk Densities and Thicknesses,
W77-03067 1006 2G

Water Stress Induced Alterations of the Stomatal Response to Decreases in Leaf Water Potential,
W77-03140 1007 2I

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

Fritted Glass Bead Materials as Tensiometers and Tension Plates,
W77-07760 1016 2G

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

Automatic Feedback Control to Maintain Constant Soil Moisture Tension in the Study of Drought Tolerance in Rice,
W77-11229 1022 2G

Soil Solution Concentrations: Effect of Extraction Time Using Porous Ceramic Cups Under Constant Tension,
W77-11397 1022 2G

MOISTURE UPTAKE

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

Relative Importance of Soil Resistance and Plant Resistance in Root Water Absorption,
W77-02118 1005 2D

Water Flow in Wheat Seedlings After Small Water Deficits,
W77-02172 1005 2D

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

MOJAVE DESERT

Sodium Relations in Desert Plants: 5. Cation Balance When Grown in Solution Culture and in the Field in Three Species of Lycium from the Northern Mojave Desert,
W77-02178 1005 3C

MOJAVE DESERT SHRUBS

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

MOLAL VOLUMES

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

MOLDAVIAN SSR
Anticrosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

MOLECULAR DIFFUSION COEFFICIENT
Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

MOLECULAR STRUCTURE
Structure-Activity Relations and the Toxicity of Trace Elements to Aquatic Biota,
W77-01299 1003 5C

Symposium on Structure-Activity Correlations in Studies of Toxicity and Bioconcentration with Aquatic Organisms.
W77-01310 1003 5C

Surfactant Structure and Aquatic Toxicity,
W77-01311 1003 5A

Structure-Activity Relationships in Fish Toxicology,
W77-01313 1003 5C

Structure-Activity Relationships of DDT Analogs in a Non-Target Organism. Lethal and Sublethal Effects of Brook Trout Fingerlings,
W77-01315 1003 5C

Some Aspects of Nuclear Spin Relaxation of Adsorbed Water Protons in Biological Matrices, (In Russian),
W77-01563 1004 5A

Some Aspects of Nuclear Spin Relaxation of Water Adsorbate Protons in Biological Matrices, (In Russian),
W77-01564 1004 5A

A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

Equilibrium Statistical Mechanical Calculation of the Molecular Diffusion Coefficient for Isotopic Impurities in Liquid Water,
W77-04999 1010 1B

Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

Quantum-Mechanical Studies of Environmental Effects on Biomolecules: I. Hydration of Formamide,
W77-11645 1023 2K

MOLECULAR STUDIES
Molecular Studies of the Ice-Forming Capabilities of Different Surfaces,
W77-02487 1005 3B

MOLLISOL
Persistence of Subsoil Compaction in a Mollisol,
W77-05353 1011 2G

MOLLUSCA
Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

MOLLUSCICIDE
Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

MOLLUSCICIDES
Permits for Use of Pesticides in State Waters.
W77-04384 1009 6E

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

MOLLUSCS
Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

MOLLUSKS
Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

The Mercury Content of Mollusks in the Pontevedra Estuary as a Measure of its Degree of Mercury Contamination, (In Spanish),
W77-02226 1005 5A

The Role of Mollusks as Benthos Components in Purification of Water Bodies from Ascaris Suum Eggs, (In Russian),
W77-02230 1005 5G

Characteristics of the Distribution of Mollusks of the Family Unionidae in the Kremenchug Reservoir, (In Russian),
W77-02921 1006 2H

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

The Kinetics of Accumulation and Excretion of Ferric Hydroxide in Mytilus Edulis (L.) and its Distribution in the Tissues,
W77-04028 1008 5C

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Toxicological Characteristics and Symptom-Complex of Acute Phenol Intoxication of Certain Freshwater Crustaceans and Mollusks, (In Russian),
W77-05607 1012 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

The Effect of Hydrotechnical Construction on the Parasites of the Deniper River, (In Russian),
W77-06323 1013 5C

Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

The Distribution and Ecology of Common Marine and Estuarine Gastropods in the Delaware Bay Area,
W77-07185 1015 5C

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

Bacteriologic Analysis in the Arosa, Vigo and Pontevedra Estuaries, (In Spanish),
W77-07589 1015 5A

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

MOLODEZHNAYA STATION (ANTARACTIC OCEAN)
Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

MOLOKAI (HAWAII)
Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

MOLOKAI IRRIGATION AND WATER UTILIZATION PROJECT
Molokai Irrigation and Water Utilization Project.
W77-09000 1018 6E

MOLYBDATE
Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

MOLYBDENUM
Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Molybdenum Hazard in Land Disposal of Sewage Sludge,
W77-06180 1013 5C

Transport of Molybdenum in Mountainous Streams, Colorado,
W77-08705 1018 5B

Molybdenum Content in the Subsurface Waters of the Vinnitsa Oblast, (In Russian),
W77-08882 1018 2K

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

The Toxicity of Ammonium Molybdate to Marine Invertebrates,
W77-12653 1024 5C

The Productivity, Fodder Value and Utilization of Nutrients by Alfalfa in Irrigation and Application of Macroelements and Molybdenum, (In Russian),
W77-12994 1024 3F

MOMENTUM EQUATION
Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

MOMENTUM TRANSFER
Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

MONASH MODEL
Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

MONITORING
Optimization of State Water Quality Monitoring Systems,
W77-00120 1001 5G

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

Automation in Sewage Processing,
W77-00586 1002 5D

Applications of Automatic Equipment to Water Analysis,
W77-00597 1002 5A

Instrumentation in the Water Industry.
W77-00601 1002 5A

Self-Monitoring Procedures: Basic Laboratory Skills,
W77-00624 1002 5A

Nonpoint Pollution and Water Quality Monitoring,
W77-00960 1002 5G

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Oil-in-Water Monitor,
W77-01201 1003 5A

Toxicity Index for Permits,
W77-01321 1003 5A

The Experience with Monitoring Water Quality in Windhoek,
W77-01457 1003 5D

Monitoring the Behaviour of Rock Tunnels During Construction,
W77-01475 1003 8G

Surface Water Pollution-the Catchment Area at Sandefjord, (In Norwegian),
W77-01587 1004 5B

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Water Pollution Monitor,
W77-01722 1004 5A

Method and Apparatus for Controlling the Discharge of Contaminants from Ships,
W77-01732 1004 5G

Making Downhole Measurements Through Modified Drill Pipe,
W77-01766 1004 8G

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges.
W77-01806 1004 5A

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

On the Possible Detection of Tsunamis by a Monitoring of the Ionosphere,
W77-01918 1004 2L

Field Monitoring Equipment for Hydrological Studies in a Small Catchment,
W77-01936 1004 7B

The Operational Use of Digital Radar Data for Flash Flood Monitoring,
W77-01941 1004 7B

Systems for Preparing Timely Flash Flood Warnings,
W77-01942 1004 4A

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Determination of Small Quantities of Vinyl Acetate in Air, Water, Alcoholic Solutions and Food Products, (In Russian),
W77-02117 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Some Aspects of Municipal Overflow Reservoir Monitoring, (In Swedish),
W77-02228 1005 5A

Biological Monitoring: Substantiation and Experience in Organization, (In Russian),
W77-02235 1005 5A

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

Alarm System Continually Monitors Plant Functions,
W77-02382 1005 8C

Environmental Impacts of Land Application of Sludge,
W77-02391 1005 5D

Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques.
W77-02444 1005 5B

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

Environment and Pollutions. Sources, Health Effects, Monitoring and Control,
W77-02521 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Freshwater Ecological Effects,
W77-02657 1006 5G

Instrumentation for Field Studies of Urban Runoff,
W77-02749 1006 5A

Rex, A Computer Controlled Robot for in Situ Water Quality Monitoring,
W77-02814 1006 5A

Problems in the Monitoring of Biomass,
W77-02818 1006 5A

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Environmental Measurements of Air and Water Quality,
W77-02880 1006 5A

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Field Monitoring Techniques and Data Analysis,
W77-03150 1007 5A

Hydrogeology of the Missouri River Flood Plain near Glasgow, Missouri,
W77-03164 1007 2F

Methods of Dissoled Oxygen Budget Analysis for Assessing Effects of Dredged Material Disposal on Biological Community Metabolism,
W77-03393 1007 5C

Mussel Test for Biological Control of Water Pollution (Kagylo-teszt vizsennyezesek biologiai hatasanak vizsgalatara),
W77-03454 1007 5A

Cyanophage Analysis as a Biological Pollution Indicator-Bacterial and Viral,
W77-03460 1007 5A

Use of Intrinsically Safe Instrumentation.
W77-03462 1007 5A

Monitoring of Community Water Supplies,
W77-03463 1007 5A

Ultraviolet Purification System.
W77-03467 1007 5A

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

An Automatic, Continuous, Modular Wastewater Monitoring System,
W77-03801 1008 5A

Water Quality Monitoring: Kaneohe Bay and Selected Watersheds July to December 1975,
W77-03826 1008 5B

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

An Assessment of the Pollution of Cornish Coastal Waters,
W77-04061 1008 5B

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

Monitoring Groundwater Quality: Economic Framework and Principles,
W77-04113 1009 5A

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Dissolved Gas Data Report, 1974, Columbia and Lower Snake Rivers,
W77-04408 1009 5A

Equipment and Techniques for Monitoring the Vertical Distribution of Fish in Shallow Water,
W77-04416 1009 5C

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

The Use of Remote Sensing for Coastal Zone Monitoring,
W77-04475 1009 5B

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Toward a Global Monitoring Program for Transuranics and Other Marine Pollutants,
W77-04522 1009 5C

Behavior of Fish Influenced by Hotwater Effluents as Observed by Ultrasonic Tracking,
W77-04568 1009 5C

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

Design and Optimization of Ground-Water Monitoring Networks for Pollution Studies,
W77-04759 1010 5A

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

Review of Gas Supersaturation Research Done by National Marine Fisheries Service at Prescott Field Facility -- 1969-1974,
W77-05091 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Gas Supersaturation Research - 1975, Prescott Facility - NMFS.
W77-05784 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

Geothermal Energy Pump and Monitor System,
W77-06443 1013 4B

A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

Monitoring the Marine Environment Through Sedimentation,
W77-06651 1014 2L

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

NASA Develops Water Monitoring System,
W77-06912 1014 5A

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

The Chemical Characteristics of the City of Winnipeg Waste Water,
W77-07047 1014 5A

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Guidelines Establishing Test Procedures for the Analysis of Pollutants,
W77-07252 1015 5A

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

Use of Aerial Remote Sensors to Monitor Dredging Projects,
W77-07344 1015 8D

Examination of Sewage Sludge for Enteroviruses, Volume 2,
W77-07615 1016 5B

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Gas Detectors Determine Health Hazards in Sewage Treatment.
W77-07880 1016 5A

How to Determine Waste Water Flow,
W77-07881 1016 5F

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

Industry Monitors County Storm Sewer Water,
W77-07933 1016 5D

Some Reflections of a Sewage Works Manager,
W77-07952 1016 5D

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Factors Affecting Snow Assessment from LANDSAT Data,
W77-08083 1016 7B

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

LANDSAT-1 Data as it has Been Applied for Land Use and Water Quality Data By the Virginia State Water Control Board,
W77-08432 1017 5A

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP

for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Remote Sensing Applications in the Inventory and Analysis of Environmental Problems,
W77-08438 1017 5A

A Controllable Automated Environmental Data Acquisition and Monitoring System,
W77-08441 1017 7C

Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Suspended Solids Measurement Gives Improved Control,
W77-08568 1017 5A

Automatic Control of Whitlingham Sewage Treatment Works Norwich,
W77-08585 1017 5D

Instrumentation Improves Waste Water Treatment Plant Control,
W77-08642 1018 5D

Neoplastic and Possibly Related Skin Lesions in Neotenic Tiger Salamanders from a Sewage Lagoon,
W77-08729 1018 5C

Make Money by Computer,
W77-08730 1018 5D

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

NPDES Permits and Water Analyses.
W77-08953 1018 5G

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

The Environmental Quality Monitoring Report.
W77-09231 1019 5G

A Chemical Monitoring Program of the Explosion Products in Underwater Explosion Tests,
W77-09242 1019 5G

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

The Importance of Monitoring Change,
W77-09591 1019 5A

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Water System Virus Detection,
W77-09636 1020 5A

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Dioxide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

South Bend's Industrial Surveillance Waste Water Monitoring Program,
W77-09919 1020 5A

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Tritium in the Monitoring of Water Supply.
W77-10196 1021 2F

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Conventional and Radioactive Pollutants of Inland Waters in Austria,
W77-10410 1021 5B

A System of Radiation Monitoring, and Methods and Equipment for Measuring Water of Low Specific Activity,
W77-10414 1021 5B

Groundwater Monitoring Wells,
W77-10517 1021 5B

Water Analysis,
W77-10648 1021 5A

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Review of PCB Levels in the Environment,
W77-10935 1022 5B

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Survey of Fish Impingement at Power Plants in the United States, Volume I. The Great Lakes,
W77-11125 1022 8I

Survey of Fish Impingement at Power Plants in the United States, Volume II. Inland Waters,
W77-11126 1022 8I

Survey of Fish Impingement at Power Plants in the United States, Volume III. Estuaries and Coastal Waters,
W77-11127 1022 8I

Water Resources Research Program - Nearshore Currents and Water Temperatures in Southwestern Lake Michigan, (June-December 1975),
W77-11131 1022 5A

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Surveillance in Water Quality Management,
W77-11478 1022 5G

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-11484 1022 5A

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

A Shipboard Oil-in-Water Content Monitor Based on Oil Fluorescence,
W77-11905 1023 5A

Shipboard Oil-in-Water Monitor,
W77-11910 1023 5A

Electrochemical Chlorine Flux Monitor,
W77-11915 1023 5A

A System and Program for Monitoring CO2 Concentration, Gradient, and Flux in an Agricultural Region,
W77-12120 1023 7B

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Water Quality Management--The Management Information Requirement,
W77-12394 1024 5G

A Community Developer's Role in Environmental Planning and Monitoring,
W77-12396 1024 5C

New Oxygen Meters.
W77-12399 1024 5A

Actuators for Edinburgh's New Sewage Disposal Scheme.
W77-12429 1024 5D

An Analysis of the Management Information System for U.S. Coast Guard Aircraft Pollution Patrols,
W77-12562 1024 5A

Digital Monitors for Ohio's Wells.
W77-12675 1024 4B

Quality Monitoring of Irrigation Water and Return Flows Irrigation Season 1974,
W77-12725 1024 5B

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

MONITORING PROGRAMS

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

MONITORS

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

MONOCHLORINATED BIPHENYL ISOMERS

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

MONOGAHELA RIVER BASIN

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

MONOMOLECULAR FILMS

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

Mosquito Control in the Aquatic Environment with Monomolecular Organic Surface Films,
W77-11888 1023 5G

MONOOXYGENASE

Mixed Function Monooxygenase of Fish as an Indicator of Pollution of Aquatic Environment by Industrial Effluent,
W77-01065 1002 5C

MONROE (WIS)

Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

MONSOONS

Dynamical Abnormalities Associated with Drought in the Asiatic Summer Monsoon,
W77-01128 1003 2B

Rainfall and Floods in India during 1973 Southwest Monsoon Period,
W77-01329 1003 2B

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

Monsoon Rains Over West Africa,
W77-06322 1013 2B

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

Areal Extent of Southwest Monsoon Droughts in India,
W77-12555 1024 2B

MONTANA

An Investigation into the Effect and Cause of Eutrophication in Georgetown Lake, Montana,
W77-00536 1002 5C

Maximum Peak Flow for Selected Return Periods for Watersheds West of the Continental Divide in Idaho and Montana,
W77-01435 1003 4D

Limnological Studies of Flathead Lake, Montana: A Status Report,
W77-01796 1004 5C

Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

Landslide Generated Water Wave Model,
W77-03318 1007 8B

Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

Floods of January 15-17, 1974, in Northwestern Montana,
W77-06350 1013 2E

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Symap Computer Projections of Summer Zooplankton Populations in Van Lake, Montana,
W77-07511 1015 7C

Annual Peak Discharges from Small Drainage Areas in Montana Through September 1976,
W77-08482 1017 2E

Water Resources Data for Montana, Water Year 1975.
W77-08738 1018 7C

Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

Water-Resources Investigations in Montana, 1976.
W77-10573 1021 7A

United States v Finch (Authority of Crow Tribe to Deny Non-Members Access to Its Land for Fishing Upheld).
W77-11183 1022 6E

Laboratory Studies of Upgrading Effluent Water Quality from Sewage Lagoons,
W77-11793 1023 5D

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

MONTE CARLO METHOD

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

Optimal Design and Operation of Reservoir Systems,
W77-06721 1014 4A

Model of a Lake Reservoir,
W77-07687 1016 4A

An Operational Approach to Preserving Skew in Hydrologic Models of Long-Term Persistence,
W77-09127 1019 2A

A Stochastic Model for the Simulation of the Temperature of a Watercourse,
W77-10300 1021 2A

The Monte Carlo Approach to Optimization of the Operation Rules for a System of Storage Reservoirs,
W77-11604 1023 4A

MONTEREY BAY (CALIF)
Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

In Situ Acoustic Measurements of Microbubbles at Sea,
W77-06916 1014 2L

A Pebble-Cobble Deposit in Monterey Bay, California,
W77-09228 1019 2L

MONTEREY HARBOR (CALIF)
Subtidal Concrete Piling Fauna in Monterey Harbor, California,
W77-01783 1004 5A

MONTHLY
The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

A Multivariate Mathematical Model of Monthly River Flow,
W77-07675 1016 2E

The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

Prediction Models for Monthly Runoff,
W77-11437 1022 4A

MONTMORILLONITE
Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: I. Experimental,
W77-01138 1003 2G

Viscosity of Interlayer Water in Montmorillonite,
W77-01326 1003 2G

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

Adsorption of Dodecylbenzene Sulfonate on NA(+)-Montmorillonite: Effect of Salt Impurities,
W77-09651 1020 2G

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: I. Supply of Copper, Zinc, and Manganese,
W77-11954 1023 3C

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: II. Supply of Iron,
W77-11955 1023 3C

MONURON
Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

MORBIDITY
Environmental Pollution Control and Health Benefits,
W77-02046 1004 6G

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

MORESTAN
Determination of Morestan in Water, Soil, and Cucumbers by Thin-Layer Chromatography, (In Russian),
W77-07688 1016 5A

MORGAN LAKE (NM)
Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

MORLON
Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

MORMYRIDS
The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

MORONE SP
Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

MORPHOGENESIS
Anthropogenic Morphogenesis of the Relief of the Lower Don, (In Russian),
W77-01039 1002 2H

MORPHOLINE
The Barrier Role of Water Treatment Installations with Respect to Certain Heterocyclic Compounds, (In Russian),
W77-02240 1005 5F

MORPHOLOGICAL CHANGES
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

MORPHOLOGICAL DEVELOPMENT
A Comparison of Larvae of the Deepwater and Fourhorn Sculpin, Myoxocephalus Quadricornis L. From North America. I. Morphological Development,
W77-04530 1009 2I

MORPHOLOGY
Morphology of Cobble Streams in Small Watersheds,
W77-00089 1001 2E

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

MORPHOMETRIC TECHNIQUES
Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

MORPHOMETRY
Morphometry and Floods in Small Drainage Basins Subject to Diverse Hydrogeomorphic Controls,
W77-04265 1009 2E

Reservoir Basin Morphometry,
W77-05447 1011 4A

MORTALITIES
Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Relationships of Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (Cancer Magister),
W77-04040 1008 5C

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

Observations on the Effects of Gas Embolism in Captured Adult Menhaden,
W77-04425 1009 5C

Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

Die Kunstliche Aufzucht Von Clupea Harengus L., (The Artificial Propagation of Clupea Harengus L.),
W77-07711 1016 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

MORTALITY
Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

Energy Dispersive X-Ray Analysis (EDAX) as an Autopsy Technique for Copper-Caused Fish Mortality,
W77-01460 1003 5A

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

Environmental Pollution Control and Health Benefits,
W77-02046 1004 6G

Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Winter Flounder Movements, Growth, and Mortality Off Massachusetts,
W77-03052 1006 5C

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Effects of Constant and Rising Temperatures on Survival and Development Rates of Embryonic and Larval Yellow Perch, Perca Flavescens (Mitchill),
W77-04550 1009 5C

Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids,
W77-05416 1011 5C

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

Assessment of Power-Plant Effects on Zooplankton in the Near Field,
W77-05593 1011 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Larval Mortality in Marine Fishes and the Critical Period Concept,
W77-05822 1012 2L

Larval Mortality and Subsequent Year-Class Strength in the Plaice (Pleuronectes Platessa L.),
W77-05823 1012 2L

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

The Possible Density-Dependence of Larval Mortality and Adult Mortality in Fishes,
W77-05829 1012 2L

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

On a Snail's Chances of Becoming a Year Old,
W77-06290 1013 5C

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Environmental Factors Affecting Survival and Growth of Vibrio Parahaemolyticus. A Review,
W77-06765 1014 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Survival and Reproduction of Gammarus spp. (Amphipoda) Following Short-Term Exposure to Elevated Temperatures,
W77-07125 1015 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-07134 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

Effect of Silt and Salinity on the Mortality of Meretrix Lusoria (Roeding), (In Korean),
W77-07428 1015 5C

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Mass Mortalities of Lates (Pisces: Centropomidae) in Lake Albert,
W77-10191 1021 2H

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

Lathyritic Changes in Carp Caused by Beta-Aminopropionitrile and D-Penicillamine,
W77-11337 1022 5C

Effects of Dissolved Oxygen on Survival and Behavior of Selected Fishes of Western Lake Erie,
W77-11514 1023 5C

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

Power Plants and Plankton,
W77-12039 1023 5C

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

MORTANDAD CANYON (NM)

Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer,
W77-06658 1014 5B

MOSES LAKE AREA (TEX)

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

MOSES LAKE (WASH)

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

MOSQUITO CONTROL

Bloodsucking Mosquitoes (Diptera, Culicidae) of the White Sea Coast: III. Breeding Places of Mosquitoes of the Genus Aedes, (In Russian),
W77-02699 1006 5G

Mosquito Control in the Aquatic Environment with Monomolecular Organic Surface Films,
W77-11888 1023 5G

MOSQUITO FISH

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

The Influence of Cations on Chlorine Toxicity,
W77-12249 1023 5C

MOSQUITO LARVAE

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

MOSQUITOES

Studies on the Tolerance of the Guppy, Poecilia Reticulata (Peters), a Natural Enemy of Mosquito Larvae, to the Septic Pollution of Water, (In Japanese),
W77-02238 1005 5C

Bloodsucking Mosquitoes (Diptera, Culicidae) of the White Sea Coast: III. Breeding Places of Mosquitoes of the Genus Aedes, (In Russian),
W77-02699 1006 5G

Heteromorphic Development of Aedine Mosquitoes Reared at Abnormal Temperatures,
W77-03047 1006 5C

Mosquito Control in the Aquatic Environment with Monomolecular Organic Surface Films,
W77-11888 1023 5G

MOSQUITOFISH

Relationship Between Thermal Loading and Parasitism in the Mosquitofish,
W77-05575 1011 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

MOSQUITOS
Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

MOSSES
Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

Experience in Cultivation of Sphagnum Mosses in an Isolated Medium, (In Russian),
W77-10754 1021 2I

Biometric Changes of Pinetum Iedosum Under the Effect of Drainage, (In Russian),
W77-11059 1022 2I

MOTION PICTURES
Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

MOTIVATION
Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

Anti-Pollution Behavior: A Function of Perceived Outcome and Locus of Control,
W77-09378 1019 6G

MOTOR BOATS
The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

MOTOR OIL (DEGRADATION)
Bacterial Degradation of Motor Oil,
W77-04577 1009 5B

MOTORCYCLE HILL-CLIMBING
Effects of Off-Road Vehicle Use on the Hydrology and Landscape of Arid Environments in Central and Southern California,
W77-04980 1010 4C

MOUNT BADDA (ETHIOPIA)
Pleistocene Glaciation in Ethiopia: New Evidence,
W77-09124 1019 2C

MOUNT ROBSON AREA (ALBERTA)
Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

MOUNT TAYLOR (N MEX)
Factors Influencing Natural Water Quality and Changes Resulting from Land-Use Practices,
W77-11425 1022 5C

MOUNTAIN CREEKS
Prediction Models of Reaeration Rate for Mountain Creeks,
W77-08501 1017 5G

MOUNTAIN FORESTS
Kinematic Wave Theory Applied to Stormflow from a Mountain Catchment,
W77-00950 1002 4C

MOUNTAIN SLOPES
Algorithm for Solar Radiation on Mountain Slopes,
W77-12135 1023 7B

MOUNTAIN TERRAINS
Mountain and Glacier Terrain Study and Related Investigations in the Juneau Icefield Region, Alaska-Canada,
W77-04277 1009 2C

MOUNTAIN WHITEFISH
A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

MOUNTAINS
Role of the Snow Cover in the Nature of Northern Landscapes and Its Physical Properties,
W77-03988 1008 2C

MOUNTAINS OF FRONT RANGE (COLO)
Potential Water Recreation Opportunities at Municipal and Private Forest Mountain Reservoirs,
W77-09272 1019 6B

MOVEMENT
LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

A Variational Approach to Nonlinear Wave Theory,
W77-02942 1006 8B

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

Measurement of Ice Movement in Subglacial Cavities: A New Cavitometer Beneath the Glacier D'Argentiere (Mt Blanc, France),
W77-08238 1017 2C

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

MOZAMBIQUE
The Limnology of Lagoa Poelela,
W77-01381 1003 2H

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

MS222
Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

MSIKABA ESTUARY (TRANSKEI)
The Zooplankton of Msikaba Estuary,
W77-10214 1021 2L

MUCOPOLYSACCHARIDES
The Effect of Sulphates and Phosphates (Industrial Wastes) on the Mucopolysaccharides Content of the Gills of the Eel Anguilla Anguilla (L.),
W77-05857 1012 5C

MUCOR ALTERNANS
Conversion of 1,1,1-Trichloro-2,2-Bis(P-chlorophenyl)Ethane (DDT) to Water-Soluble Products by Microorganisms,
W77-10742 1021 5C

MUD
Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

The Accumulation of Mercury in Fishes Reared in the Sea Water Contaminated by Suspended Solids Containing Mercury, (In Japanese),
W77-06404 1013 5C

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

MUD-CRAB
Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

MUD FLATS
Sedimentary Model for Intertidal Mudflat Channels, with Examples from the Solway Firth, Scotland,
W77-01629 1004 2L

MUD-WATER INTERFACES
Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

Experimental Studies on Material Transactions Between Mud and Water of the Gnadensee,
W77-03370 1007 5C

Role of Oligochaetes in the Circulation of Water and Solutes Across the Mud-Water Interface,
W77-07508 1015 5C

Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

MUDDY-EARTHY TAINT
Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

MUDDY RUN PUMPED STORAGE PROJECT (PENN)
The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

MUDFLATS
Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

MUDFLOWS
Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

Effects of the Catastrophic Flood of December 1966, North Rim Area, Eastern Grand Canyon, Arizona,
W77-07480 1015 2E

MUDMINNOWS
The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

MUDS
Study of Mineralization in an Agricultural Soil of Residual Muds of Various Origins, (In French),
W77-10998 1022 5G

Interaction of Climate, Organic Material and Stuctural Stability in Muddy Soils, (In French),
W77-12470 1024 2G

MUGIL
Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

MUIR SEAMOUNT
Geographical Variability of the Internal Wave Field: A Search for Sources and Sinks,
W77-00135 1001 2L

MULCHING
Mulch and Microclimate: The Significance of Mulch and the Change in Temperature Behavior Resulting from It, (In Dutch),
W77-01447 1003 2G

Mulch, Nitrogen, and Irrigation Effects on Growth, Yield, and Nutrient Uptake of Forage Corn,
W77-11390 1022 3F

The Development of a Furrow-Mulch Ridger,
W77-12538 1024 3F

MULITOPLE OBJECTIVE PLANNING
The Department of Transportation - Use of Multi-Objective Planning,
W77-01158 1003 6B

MULLET
Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

MULLETS
Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

Recent Progress on the Control of Ovarian Development and Induced Spawning of the Grey Mullet (Mugil Cephalus L.),
W77-02882 1006 5C

Summer Growth Depression in the Striped Mullet, Mugil Cephalus L.,
W77-07378 1015 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Determination of Organochlorine Pesticides in the Tissue of the Black Mullet (Mugil cephalus) and the Silver Mullet (Mugil curema),
W77-12197 1023 5B

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

MULLICA RIVER BASIN (NJ)
Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

MULLUSKS
Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

MULTI-LEVEL SECTOR MODEL
A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

MULTI-OBJECTIVE PLANNING
'Approaches to Multi-Objective Planning in Water Resource Projects,' by Bernard W. Taylor III, K. Roscoe Davis, and Ronald M. North,
W77-01510 1003 6B

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

MULTI-OBJECTIVE THEORY
A Search Technique for Formulating Improved Water Resources Configurations, Part II,
W77-00534 1002 6A

MULTI-OBJECTIVES
An Illustrative Example of the Use of Multiattribute Utility Theory for Water Resource Planning,
W77-12169 1023 6A

MULTI-STAGE FILTER PRESS
Multi-Stage Filter Press.
W77-07914 1016 5D

MULTI-STAGE FLASH DISTILLATION MODULES
Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

MULTIAQUIFER SYSTEMS
Finite-Element Analysis of Groundwater Flow in Multiaquifer Systems, I. The Behavior of Hydrological Properties in an Aquitard While Being Pumped,
W77-07148 1015 2F

MULTIATTRIBUTE UTILITY FUNCTION
Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

MULTIATTRIBUTE UTILITY THEORY
Preference Models of Environmental Impact,
W77-04020 1008 6G

An Illustrative Example of the Use of Multiattribute Utility Theory for Water Resource Planning,
W77-12169 1023 6A

MULTIAXIAL LOADING
Strength of Ice Under Multiaxial Loading,
W77-03301 1007 2C

MULTICOMPONENT TOXAPHENE RESIDUES
Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

MULTICRITERIA ANALYSIS
A Multicriteria Analysis for Water Resource and Land Use Development,
W77-11773 1023 6A

MULTIDIMENSIONAL SCALING
The Structural Analysis of Environmental Perception and Cognition: A Multidimensional Scaling Approach,
W77-08722 1018 6B

MULTIELEMENT ANALYSIS
Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

MULTILEVEL ANALYSIS
A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

MULTILEVEL APPROACH
Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

MULTILEVEL CONTROL
Optimal Storage Control in a Combined Sewer System,
W77-10846 1022 5D

MULTILEVEL OPTIMIZATION
Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

MULTINOMIAL ANALYSIS
A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

MULTIOBJECTIVE PLANNING
Philosophy of Multiple Objective Planning in the Bureau of Reclamation,
W77-01156 1003 6B

Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

MULTIOBJECTIVE PROGRAMMING
Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

MULTIOBJECTIVE SYSTEM FRAMEWORK
Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

MULTIPHASE FLUID FLOW
Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

MULTIPLE-AQUIFER SYSTEMS
Finite-Element Analysis of Groundwater Flow in Multi-Aquifer Systems, II. A Quasi Three-Dimensional Flow Model,
W77-09362 1019 2F

MULTIPLE-OBJECTIVE
History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

MULTIPLE OBJECTIVE PLANNING
The Attitude and Interest of the Environmental Protection Agency in Multiple Objective Planning of Water and Related Land Resources,
W77-01153 1003 5G

Emerging Corps of Engineers Guidelines for Implementing the Planning Requirements of WRC's Principles and Standards and Related Policies,
W77-01154 1003 6B

Implementation of Multiple Objective Planning by the Soil Conservation Service,
W77-01155 1003 6B

The Tennessee Valley Authority and Multiple Objective Planning,
W77-01157 1003 6B

Implementation of Multi-Objective Planning in the Department of Commerce,
W77-01159 1003 6B

The Use of Multiple Objective Planning in the Bureau of Land Management,
W77-01161 1003 6B

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Multiobjective Planning: Concepts and Methods,
W77-01346 1003 6B

MULTIPLE OBJECTIVES
Preference Models of Environmental Impact,
W77-04020 1008 6G

Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

MULTIPLE OPTIONS
Comment on 'An Optimization Model for Regional Water Quality Management' by John R. McNamara,
W77-05919 1012 5G

MULTIPLE PURPOSE
Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

Methods for Control of the Regimes for Water Resources Systems,
W77-06717 1014 4A

MULTIPLE-PURPOSE PROJECTS
Multiobjective Planning: Concepts and Methods,
W77-01346 1003 6B

The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

The California State Water Project in 1975.
W77-03551 1007 6B

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Multipurpose Development on the Tisza River.
W77-03957 1008 4A

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

The California State Water Project Summary: 1974.
W77-06362 1013 8A

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

The Functional and Aesthetic Uses of Two Cache Valley, Utah, Canals,
W77-09796 1020 6B

Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

MULTIPLE-PURPOSE RESERVOIRS
Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Optimal Design of Single Reservoir System Using (Delta) Relase Policy,
W77-00109 1001 4A

Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

Surface-Water Quantity Management Models,
W77-05013 1010 4A

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

The Conjunctive Use of a Multi-Reservoir System and a Dual-Purpose Desalting Plant,
W77-06714 1014 4B

Reservoir Operation Under Conflicting Objectives,
W77-07536 1015 4A

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

MULTIPLE RESERVOIRS
Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

MULTIPLE REUSE OF MUNICIPAL WASTEWATER
Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

MULTIPLE USE
Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

MULTIPLE USE MANAGEMENT
Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

MULTIPLE WELLS
Hydraulics and Economics of Well Field Layout.
W77-06863 1014 8B

MULTISPECTRAL SCANNING
Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

MULTIVARIATE ANALYSIS
Multivariable Flood Level Frequency Distributions,
W77-03996 1008 8B

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

MULTIVARIATE DISTRIBUTIONS
Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

MUMMY BERRY DISEASE
An Epidemiological Study of Mummy Berry Disease of Highbush Blueberry,
W77-11928 1023 3F

MUNICH (GERMANY)
Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

MUNICIPAL ENFORCEMENT
EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

MUNICIPAL INFORMATION SYSTEM
User Manual for Sewer and Water Accounts Processing Module.
W77-11856 1023 5G

MUNICIPAL INFORMATION SYSTEMS
Municipal Information Systems: Evaluation of Policy Related Research. Volume 2. Computer Utilization in Local Government,
W77-07631 1016 6B

MUNICIPAL WASTE WATER
Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

MUNICIPAL WASTES
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

Institutional Problems of the Small Treatment Plant,
W77-00010 1001 5D

Computer Evaluation of Sludge Handling and Disposal Costs,
W77-00012 1001 5D

Urban Sludge Disposal or Utilization Alternatives, Socio-Economic Factors,
W77-00013 1001 5E

Sludge Management Alternatives for Coastal Cities,
W77-00014 1001 5E

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

Sludge Disposal Alternatives for Boston,
W77-00016 1001 5E

Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

Energy Conservation Practices in Municipal Sludge Management,
W77-00018 1001 5D

Updating the 1974 Pittsburgh Conference,
W77-00019 1001 5D

Summary of the ASCE Seminar on Sludge Disposal,
W77-00020 1001 5D

The Past, Present, and Future Prospects of Burning Municipal Sewage Sludge Along with Mixed Municipal Refuse,
W77-00021 1001 5E

Management of Municipal Wastewater Treatment Residuals,
W77-00023 1001 5D

A Sludge Policy for the 70's,
W77-00026 1001 5E

Ecological Impact of the Disposal of Municipal Sludge Onto Land,
W77-00027 1001 5E

San Diego: Civil Engineering Innovations Abound.
W77-00063 1001 5D

Variable Nature of Chemical Composition of Sewage Sludges,
W77-00602 1002 5A

Irrigation of Corn with Simulated Municipal Sewage Effluent,
W77-00610 1002 5E

Large-Scale Effluent Treatment in the Dyestuffs Industry.
W77-00758 1002 5D

Why Industrial Wastewater Pretreatment,
W77-00763 1002 5D

Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

The Energy Potential of Municipal Solid Wastes in South Africa,
W77-01463 1003 3D

Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

Austin's 11 Mile Sewer Tunnel Reflects Sound Economic, Environmental Alternatives,
W77-02327 1005 5D

Advanced Waste Treatment Plant has Physical-Chemical Option,
W77-02345 1005 5D

Solar Sewage Plant 75% Energy Self-Sufficient.
W77-02354 1005 5D

Spray Irrigation Solves Disposal Problem,
W77-02356 1005 5D

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

Wastewater Reuse-Industrial, Municipal, or Both,
W77-02358 1005 5D

Open Tank Pure Oxygen System Begins Operation,
W77-02359 1005 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

Polychlorinated Biphenyls (PCB's) in Municipal Wastewaters: An Assessment of the Problem in the Canadian Lower Great Lakes,
W77-02768 1006 5A

Field Monitoring Techniques and Data Analysis,
W77-03150 1007 5A

Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

Ammonia Removal from Wastewater by Ligand Exchange,
W77-03367 1007 5D

Denver's Headworks Reflects Complexity of System,
W77-03412 1007 5D

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

Specific Role of Lime in Municipal Waste Water Treatment-Expectations and Reality (Die Spezifische Rolle Des Kalks in Der Kommu-

nalen Abwasserreinigung-Erwartungen Und Realitaeten),
W77-03422 1007 5D

Model Studies in Aqueous Chlorination: The Chlorination of Phenols in Dilute Aqueous Solutions,
W77-03458 1007 5A

Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Effects of Municipal Compost and Nitrogen Fertilizer on Selected Soils and Plants,
W77-06146 1013 5C

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

The Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W77-06532 1013 5D

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Upgrading Biological Sewage Treatment Plants Today,
W77-07062 1014 5D

The Current Role of Wastewater Disinfection,
W77-07064 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Effect of Water Work's Sludge on Waste Water Treatment,
W77-07085 1014 5D

Workshop Proceedings -- Research Needs Related to Recycling Urban Wastewater on Land,
W77-07607 1016 5D

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

PI. 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

Problems and Solutions for Sludge Treatment. Part 2,
W77-09829 1020 5D

Land Application of Municipal Sludge,
W77-09882 1020 5E

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

The Push to Ease Water Rules.
W77-10446 1021 6E

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

$885 Million-Plus Plan is Recommended for Boston Area,
W77-10578 1021 5D

Extensive Collection System Highlights $30 Million Pollution Control Program.
W77-10588 1021 5D

Grout Routs Sewer Problems,
W77-10590 1021 5D

The Effect of Urban Sewage and Industrial Wastes of Bialystok on the Purity and Biocoenosis of the Suprasl and Narew Rivers (Wplyw sciekow miejskich i przemyslowych m. Bialegostoku na czystosc i biocenoze rzeki Suprasli i Narwi),
W77-10593 1021 5C

Sandvika Waste Water Treatment Plant in Operation. Experience with Design, Construction, and Operation (Sandvika renseanlegg i praksis. Erfaringer fra planlegging, bygging og drift),
W77-10630 1021 5D

Amador Valley Investors v City of Livermore (The Acts of a City are not Privileged When Private Property Damage Results from Inadequate Planning of Waste Disposal).
W77-11181 1022 6E

Let's Talk Rubbish Part 3: Litter,
W77-11545 1023 5B

Possibilities of Waste Recycling in South Africa - Choices and Conflicts,
W77-11551 1023 5D

Possibilities of Waste Recycling in South Africa - II,
W77-11552 1023 5D

Physical-Chemical Treatment System for Sewage.
W77-11701 1023 5D

Hayle's Long Wait for its Sewage Scheme is Over,
W77-11716 1023 5D

Water Related Utilities for Small Communities in Rural Alaska,
W77-11763 1023 5D

Waste Water Treatment System.
W77-12451 1024 5D

Inventory of Sewage Treatment Plants for Chesapeake Bay,
W77-12496 1024 5D

MUNICIPAL WASTEWATER

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Workshop Proceedings -- Research Needs Related to Recycling Urban Wastewater on Land,
W77-07607 1016 5D

MUNICIPAL WATER

Municipal Watershed Management Survey,
W77-01422 1003 4D

Polyelectrolyte Persistence in a Municipal Water Supply,
W77-02221 1005 5F

Some Aspects of Municipal Overflow Reservoir Monitoring, (In Swedish),
W77-02228 1005 5A

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

Clear Lake Apartments, Inc V Clear Lake Utilities (Exclusive Right to Provide Water Not a Covenant Running With the Land).
W77-03716 1008 6E

Water (General Interpretation and Administration Provisions).
W77-04383 1009 6E

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

Water Rights.
W77-06074 1012 6E

Pinellas County V. Lake Padgett Pines (Water Resources Act and Effect of Water Withdrawal Project),
W77-06574 1013 6E

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

Urban Water Planning, A Bibliography, Volume 2.
W77-09264 1019 6B

Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

Direct Digital Control at the Iowa City Water-Treatment Plant,
W77-10585 1021 5F

MUNICIPAL WATER DEMAND
Development of Commercial/Institutional Parameter Units for the Main II System of Water Demand Forecasting,
W77-04182 1009 6D

MUNICIPALITIES
Enforcement of Municipal Permits: Portent of Problems,
W77-08971 1018 6E

MUNITIONS
Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

MUNITIONS WASTES
Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

MUR RIVER (AUSTRIA)
Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

MURMAN COAST (USSR)
Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

MURRAY RIVER
Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

MUSCATINE COUNTY (IOWA)
Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

MUSCLE PROTEINS
Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

MUSCLE TISSUE (FISH)
Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

MUSKEGON (MICH)
Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

MUSKELLUNGE FRY
The Effect of Acclimation on the Temperature Tolerance of Young Muskellunge Fry,
W77-05560 1011 5C

MUSKRATS
Effect of Muskrats on Aquatic Vegetation, (In Russian),
W77-02925 1006 2I

MUSSELS
Change of the Biochemical Composition of Mussels Under Conditions of Regulated Flow of the Dnieper, (In Russian),
W77-00281 1001 5C

Blue Gold: Mariculture of the Edible Blue Mussel (Mytilus Edulis),
W77-00386 1001 6C

Role of the Mussel in Purifying Sea Water of Petroleum Products (In Experiment), (In Russian),
W77-00418 1001 5G

Accumulation and Distribution of Selenium in Mussel and Shrimp Tissues,
W77-00873 1002 5C

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Mussel Test for Biological Control of Water Pollution (Kagylo-teszt vizsennyezesek biologiai hatasanak vizsgalatara),
W77-03454 1007 5A

The Kinetics of Accumulation and Excretion of Ferric Hydroxide in Mytilus Edulis (L.) and its Distribution in the Tissues,
W77-04028 1008 5C

Mercury in Tissues of Mussel Off Southern California,
W77-04060 1008 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Influence of Environmental Factors on Selenium Flux in Two Marine Invertebrates,
W77-06405 1013 5C

The Effects of Chelating Agents on the Uptake and Accumulation of Cadmium by Mytilus Edulis,
W77-06414 1013 5C

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Role of Mussels Mytilus edulis in Removal of Petroleum Products from Seawater (Under Experimental Conditions),
W77-07116 1015 5C

Uptake and Accumulation of the Nickel Ion by Mytilus edulis,
W77-07198 1015 5C

The Influence of Temperature and Time of Year on the Oxygen Uptake of the Sea Mussel Mytilus Edulis,
W77-07383 1015 5C

Mussels (Mytilus Sp.) as an Indicator of Lead Pollution,
W77-08693 1018 5C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

MUSSELS

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

Distribution of Cadmium, Zinc and Copper in the Mussel Mytilus Edulis. Existence of Cadmium-Binding Proteins Similar to Metallothioneins,
W77-11519 1023 5C

The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

Effects of High Stability Iron-Complexes on the Kinetics of Iron Accumulation and Excretion in Mytilus edulis (L.),
W77-12228 1023 5B

MUST WATER PROCESSING ELEMENTS

Control and Monitor Instrumentation for Must Water Processing Element, Final Report,
W77-02878 1006 5A

MUTAGENESIS

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

MUTAGENS

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

MYA ARENARIA

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

MYAKKA RIVER BASIN (FLA)

Water Resources of the Myakka River Basin Area, Southwest Florida,
W77-08167 1017 4B

MYCELIA-FORMING FUNGI

Studies on Fungal Propagules in the Weser Estuary (German Bight): I. Quantitative Data 1974, (In German),
W77-07583 1015 5C

MYCOBACTERIUM

Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

MYCOBACTERIUM BOVIS BCG

Persistence of Mycobacterium Bovis BCG in Soil and on Vegetables Spray-Irrigated with Sewage Effluent and Sludge,
W77-08525 1017 5C

MYCOBACTERIUM-SP

Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

MYCOLEPTODISCUS TERRESTRIS

Mycoleptodiscus Terrestris Leaf Spot on Waterhyacinth,
W77-02543 1005 5G

MYCOTIC FLORA

Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

MYCTOPHOIDEA

The Larval Taxonomy of the Primitive Myctophiform Fishes,
W77-04537 1009 2I

MYOPIC DECISION RULES

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

MYOPSIDA

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

MYOXOCEPHALUS QUADRICORNIS

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

MYRIOPHYLLUM

Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

MYRIOPHYLLUM SPICATUM WATER MILFOIL

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

MYSTUS

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

MYTILUS CALIFORNIANUS

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

MYTILUS EDULIS

Blue Gold: Mariculture of the Edible Blue Mussel (Mytilus Edulis),
W77-00386 1001 6C

Role of the Mussel in Purifying Sea Water of Petroleum Products (In Experiment), (In Russian),
W77-00418 1001 5G

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

ATP Content and Mortality in Mytilus Edulis from Different Habitats in Relation to Anaerobiosis,
W77-09671 1020 5C

MYTILUS-GALLOPROVINCIALIS

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

MYTILUS VARIABILIS

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

N-ALKANE

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

N-PHENYL- A-NAPHYLAMINE

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

NAIDIDAE

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

NALED

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

NAMIB DESERT

Some Aquatic Vertebrates from the Namib Desert, South West Africa,
W77-01493 1003 2I

NAMOI-GWYDIR DISTRIBUTING SYSTEM

Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

NANCY LAKE AREA (ALAS)

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

NANNOPLANKTON

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Grazing Effects on Nannoplankton in Gatun Lake, Panama,
W77-07507 1015 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

NANTUCKET ISLAND (MASS)
Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

NAPHTHALENE
The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

NAPHTHALENES
Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

NAPHTHYLAMINES
4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

NAPLES (ME)
Flood Hazard Analysis: Crooked River, Town of Casco, Town of Naples, Cumberland County, Maine,
W77-00100 1001 4A

NARES STRAIT (CANADA)
Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

NARRAGANSETT BAY (RI)
Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

Manganese in Narragansett Bay,
W77-00642 1002 5A

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

NASA-JOHNSON SPACE CENTER (TEX)
Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

NASH MODEL
A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

NASSAU COUNTY
A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

NASSAU COUNTY (NY)
Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

NATAL
Umgeni River Catchment Analysis,
W77-01488 1003 4D

NATAL (SOUTH AFRICA)
Wisselwerking tussen land en see, of, die ekologie van die kuswaters van Natal (The Inter-action between Land and Sea, or, the Ecology of the Coastal Waters of Natal),
W77-10072 1020 2L

NATIONAL COMMISSION ON WATER QUALITY
November 1975 Staff Draft Report: Review and Comment,
W77-01965 1004 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

NATIONAL COMMISSION ON WATER QUALITY (NCWQ)
NCWQ Recommends Changes in Water Pollution Act,
W77-07237 1015 5G

NATIONAL ENVIRONMENTAL POLICY ACT
Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

Caught in Mid-Stream: Army Corps of Engineers,
W77-01086 1003 6E

Substantive Rights Under the National Environmental Policy Act,
W77-02067 1004 6E

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

State of North Carolina V Federal Power Commission (Rivers Designated for Potential Addition to the System Under the Wild and Scenic Rivers Act).
W77-06069 1012 6E

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

Pollution of Lake Michigan and Its Tributary Basin.
W77-09528 1019 5G

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Benefit-Cost Analysis: Its Use (Misuse) in Evaluating Water Resource Projects,
W77-09550 1019 6B

New Roles For the Old Dam Builders,
W77-09552 1019 6F

NATIONAL ENVIRONMENTAL POLICY ACT (1969)
Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

NATIONAL ENVIRONMENTAL SATELLITE SERVICE (NESS)
River Basin Snow Mapping at the National Environmental Satellite Service,
W77-06915 1014 2C

NATIONAL FLOOD INSURANCE
Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

NATIONAL FLOOD INSURANCE ACT
The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

NATIONAL FLOOD INSURANCE PROGRAM
Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

The National Flood Insurance Program: Explanation and Legal Implications,
W77-03956 1008 6F

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

NATIONAL FOREST
Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

NATIONAL GOODS
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

NATIONAL INCOME MAXIMIZATION
Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

NATIONAL OIL SPILL CONTINGENCY PLAN
What Are We Doing About Oil Spill,
W77-09553 1019 5G

NATIONAL PARKS
Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

Governmental Interest in Protecting Beach from Environmental Damage Through Overuse Outweighs Due Process Right to Bath Nude,
W77-08124 1017 6E

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

United States v Brown (State Waters Within National Parks Subject to Federal Regulations).
W77-11185 1022 6E

NATIONAL POLLUTANT DISCHARGE ELIMINATION PERMITS
NPDES Permits and Water Analyses.
W77-08953 1018 5G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

Virginia State Program for Control of Discharge of Pollutants to Navigable Waters; Approval.
W77-03527 1007 5G

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
Complying with Discharge Regulations,
W77-08954 1018 5G

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
United States V Cutter Laboratories, Inc (Civil Liability of a Permittee for Whom no Industrial Effluent Limitations or Guidelines Exist).
W77-07274 1015 6E

NATIONAL TEST ORGANISM
Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

NATIONAL WATER ASSESSMENT
A Perspective on Flood Protection of Agricultural Lands.
W77-11850 1023 6F

NATIONAL WATER DATA EXCHANGE (NAWDEX)
Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

Status of the National Water Data Exchange (NAWDEX)--September 1976,
W77-04237 1009 7C

The National Water Data Exchange (NAWDEX),
W77-12372 1024 7C

NATIONAL WATER DATA NETWORK
Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
W77-10013 1020 7C

NATIONAL WATER PERMIT PROGRAM
Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

NATIONAL WETLANDS INVENTORY
Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

NATIONALE WATERSPORTBAAN GEORGE NACHEZ (BELGIUM)
Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

NATO
Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

NATURAL AREAS
Modeling Multiple-Use in Natural Areas: Part I -- The Basic Formulation,
W77-07530 1015 6A

NATURAL EVAPORATION
An Evaporation Equation for an Open Body of Water Exposed to the Atmosphere,
W77-01338 1003 2D

NATURAL FLOW
Dize Awning and Tent Co V Winston-Salem (Right to Increase Rate of Flow from Creek Watershed Under Easement of Servitude).
W77-00994 1002 6E

Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

NATURAL FLOW DOCTRINE
Ownership of Water.
W77-03722 1008 6E

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

NATURAL FLUSHOUT
Quantifying the Natural Flushout of Alluvial Aquifers,
W77-04889 1010 5B

NATURAL GAS
Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

NATURAL LYSIMETER

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

NATURAL RECHARGE

The Use of Natural Tritium for Evaluating Aquifer Recharge,
W77-10372 1021 2F

NATURAL RESOURCES

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

A Case Study of Citizen Participation in Resource Planning: The Crawford County Critical Resource Information Workshop.
W77-00171 1001 6B

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

Commission on the Conference of the Law of the Sea.
W77-01104 1003 6E

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

Control of Water Pollution - A Hidden Resource, (Beheer oor waterbesoedeling - 'n verborge hulpbron),
W77-01489 1003 5G

'Common Property' as a Concept in Natural Resources Policy,
W77-02064 1004 6B

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

Limnological Ecosystems and Hawaii's Preservational Planning,
W77-04149 1009 6A

1975 Annual Report Natural Resources and Recreation Agencies,
W77-04357 1009 6E

Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Achievements in Marine Conservation, 1. Marine Parks,
W77-06049 1012 5G

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

Remote Sensing Methods and Problem of Natural Resource Inventory, (In Russian),
W77-09311 1019 7B

Urban Planning to Minimize Environmental Impact,
W77-09377 1019 6B

Geological Survey Research 1976.
W77-10560 1021 2A

Dredged Material as a Natural Resource,
W77-10962 1022 5E

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

Resources and Land Investigations (RALI) Program.
W77-11368 1022 7C

NATURAL STREAMS

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

WATEQF-A Fortran IV Version of WATEQ, A Computer Program for Calculating Chemical Equilibrium of Natural Waters,
W77-04226 1009 7C

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

On Deterministic Components in Natural Streamflow,
W77-07658 1016 2E

Thermal Loading of Natural Streams,
W77-09068 1018 5B

Dispersion Model for an Instantaneous Source of Pollution in Natural Streams and Its Applicability to the Big Blue River (Nebraska),
W77-09183 1019 5B

Prediction of Longitudinal Dispersion in Natural Streams,
W77-12330 1024 2E

NATURAL SUBSTRATE LEVELS

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

NAUPLII

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

NAVAJO DAM (N MEX)

Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

NAVAJO SANDSTONE

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

NAVICULA-CONFERVACEA

The Proliferation in the Seine of a Tropical Benthic Diatom: Navicula Confervacea (Kutz.), (In French),
W77-04726 1010 5C

NAVIER-STOKES EQUATION

Some Remarks on Computer Modeling of Coastal Flows,
W77-04897 1010 5B

NAVIGABILE WATERS

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

NAVIGABILITY

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

NAVIGABILITY TESTS

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

NAVIGABILITY TESTS

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

NAVIGABLE IN FACT

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

NAVIGABLE RIVERS

Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Chapman v United States (Tort Liability for Submerged Dam in Navigable Stream).
W77-11202 1022 6E

NAVIGABLE WATER

Artificial and Natural Lakes,
W77-03694 1008 6E

NAVIGABLE WATERS

United States Coast Pilot 4 - Atlantic Coast from Cape Henry to Key West.
W77-00278 1001 4A

United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

New Federal Regulations for Dredged and Fill Material,
W77-00967 1002 5G

Harbors, Tide Waters and Water Rights.
W77-01003 1002 6E

Shoreland Boundaries.
W77-01004 1002 6E

Navigation Law, Section 89-b.
W77-01013 1002 6E

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

Pollution of Navigable Waters.
W77-01122 1003 6E

Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

Providence and Worcester Company V. Exxon Corporation (Right-of-Way in Land Submerged in Tidewater).
W77-03496 1007 6E

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

Keynote Speech, Second Annual Conference on Restoration of Coastal Vegetation in Florida,
W77-03943 1008 5G

Jurisdiction and Grounds for Denial by State and Federal Agencies of Dredge and Fill Operations,
W77-04923 1010 5G

The Navigability Concept in the Civil and Common Law: Historical Development, Current Importance, and Some Doctrines That Don't Hold Water,
W77-06553 1013 6E

Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

Encroachments on Navigable Lake.
W77-07264 1015 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

Canadian Pacific (Bermuda) Limited V United States (No Duty to Survey or Dredge Channel at Any Particular Time).
W77-08152 1017 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

A Reconnaissance of the Hydrology of the Intracoastal Waterway from Bucksport to Little River Inlet, South Carolina,
W77-09077 1018 2L

Analyses of Native Water, Bed Material, and Elutriate Samples of Major Louisiana Water Waterways, 1975,
W77-09084 1018 5A

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

Every Pond and Puddle--Or, How Far Can the Army Corps Stretch the Intent of Congress,
W77-11165 1022 6E

United States v Finch (Authority of Crow Tribe to Deny Non-Members Access to Its Land for Fishing Upheld).
W77-11183 1022 6E

Atlantic City Electric Company v Bardin (State's Right to Grant and Set Consideration for Lands Held in Public Trust).
W77-11186 1022 6E

Sections 9 and 10 of the Rivers and Harbors Act of 1899: Potent Tools for Environmental Protection,
W77-11470 1022 6E

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

NAVIGATION

United States Coast Pilot 4 - Atlantic Coast from Cape Henry to Key West.
W77-00278 1001 4A

United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

PIANC,
W77-00976 1002 6E

Development of Navigation with Locks and Dams,
W77-02943 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Grays Harbor Estuary, Washington, Report 6, 45-FT MSL (40-FT MLLW) Navigation Channel Improvement Studies; Hydraulic Model Investigation,
W77-02963 1006 8B

Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

Canal Commission Law.
W77-05072 1010 6E

Salvops-Hopper Dredge 'A. Mackenzie',
W77-07343 1015 8D

Maintenance Dredging in the New Orleans District, US Army Corps of Engineers,
W77-07347 1015 8D

User Charges in Inland Navigation Policy,
W77-08604 1018 6C

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

NAVIGATION CHANNELS

Lake Dardanelle, Arkansas River; Hydraulic Model Investigation,
W77-09988 1020 8B

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

NAVIGATION OBSTRUCTIONS

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

State v Lucius (Sabine River Authority Regulation of Access by Water to Lake).
W77-05074 1010 6E

United States V Osage Company (Removal of Sunken Boats Obstructing Navigable Waters Owner's Responsibility).
W77-08150 1017 6E

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

NAVIGATION SEASON

An Analysis of Great Lakes Ice Cover from Satellite Imagery,
W77-02676 1006 2C

NAVIGATIONAL SERVITUDE

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

NEANTHES SP.

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

NEAR-EAST REGION

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

NEARSHORE CIRCULATION

Numerical Models for the Prediction of Wave Set-Up and Nearshore Circulation,
W77-03769 1008 2L

NEARSHORE CURRENTS

Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

NEARSHORE ENVIRONMENTS

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

NEARSHORE ZONE

Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

NEBIT-DAG (TURKMAN SSR)

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

NEBRASKA

The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

History of Irrigation and Characteristics of Streamflow in Nebraska Part of the North and South Platte River Basins,
W77-00859 1002 2E

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

Nearly 50,000 Nebraska Wells Causing Some Concern.
W77-01765 1004 4B

Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

Predicting Sediment Yield Frequency for Rural Basins to Determine Man's Effect on Long-Term Sedimentation,
W77-02786 1006 4D

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume II, Summary Report, Antelope Creek, Dead Mans Run, and Middle Creek, Salt Creek Basin.
W77-03180 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Water Resources Data for Nebraska, Water Year 1975,
W77-03885 1008 7C

Magnitude and Frequency of Floods in Nebraska,
W77-03886 1008 2E

Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Special Flood Hazard Information Report: Betz Road Ditch, City of Bellevue, Nebraska.
W77-04217 1009 4A

Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

Making Water Available for Irrigation,
W77-04293 1009 4B

Valder V Wallis (Establishing Title to Accreted Portion of Interstate Island),
W77-04932 1010 6E

Groundwater Levels in Nebraska, 1975,
W77-05274 1011 2F

Hydrologic Unit Map--1974, State of Nebraska.
W77-05281 1011 7C

Flood Plain Information: North Platte River, Scottsbluff, Nebraska.
W77-05302 1011 4A

Glendo Reservoir; General Provisions.
W77-06073 1012 6E

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

Winkle V Mitera (Riparian Rights of An Island Owner),
W77-08159 1017 6E

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Dispersion Model for an Instantaneous Source of Pollution in Natural Streams and Its Applicability to the Big Blue River (Nebraska),
W77-09183 1019 5B

Influence of Crop Management Practices on Nutrient Movement Below the Root Zone in Nebraska Soils,
W77-09279 1019 2G

Nebraska Issues Regulations Under Safe Drinking Water Act of 1976.
W77-10523 1021 5G

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

Determination of Regional Evapotranspiration from Upper Air Meteorological Data,
W77-11211 1022 2D

Groundwater Levels in Nebraska, 1976,
W77-12393 1024 4B

NEBRASKA (NB)

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

NEBRASKA SAFE DRINKING WATER ACT

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

NEGATIVE PRESSURE

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

NEGEV REGION (ISRAEL)

The Effect of Environmental Factors on the Growth of a Natural Pasture,
W77-01285 1003 2I

NEGLIGENCE

Dize Awning and Tent Co V Winston-Salem (Right to Increase Rate of Flow from Creek Watershed Under Easement of Servitude).
W77-00994 1002 6E

Norman and Schaen, Inc V Dallas (Without Causing Increase in Water Flow Across Property, City Not Responsible for Faulty Drainage System).
W77-00995 1002 6E

Desormeaux V Central Industries, Inc. (Lack of Water for Irrigation Causing Crop Damage),
W77-05075 1010 6E

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

Brizendine V Nampa Meridian Irrigation District (Duty to Maintain Canal),
W77-06077 1012 6E

Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

NEGRO RIVER

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

NEIGHBORHOOD AWARENESS

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

NEKTON

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

NELMA

Presence of Spring and Winter Races of the Nelma in the OB River, (In Russian),
W77-00057 1001 2I

NEMACUR

Nematicide Application Through Porous Subsurface Irrigation Tubing,
W77-11960 1023 3F

NEMATOCIDES

Nematicide Application Through Porous Subsurface Irrigation Tubing,
W77-11960 1023 3F

NEMATODA

Ecology of Encrusting Microfauna of Higher Aquatic Plants of the Kiev Reservoir, (In Russian),
W77-12365 1024 2H

NEMATODE-DOMINATED COMMUNITY

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

NEMATODES

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Qualitative and Quantitative Studies on the Meiofauna of a Tropical Fresh Water Stream Subject to Tidal Influence, (In Italian),
W77-07390 1015 5C

The Larval Spirurid Nematodes of Fresh-Water Crustaceans: I. The Identification and the Examination of Their Pathogenicity,
W77-07458 1015 5C

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

Nematicide Application Through Porous Subsurface Irrigation Tubing,
W77-11960 1023 3F

The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

NEOCLASSICAL ECONOMIC MODELS

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

NEON

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

NEON SUPERSATURATION

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

NEONATES

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

NEOPLASMS (MALIGNANT)

Water Hardness and Incidence of Malignant Neoplasms Among the Population, (In Russian),
W77-02384 1005 5F

NEOZONE D

Photometric Determination of Isoprene and Neozone D in Water, (In Russian),
W77-01594 1004 5A

NEREIS DIVERSICOLOR

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

NERITIC

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

NET BACK RADIATION

Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

NET NATIONAL BENEFITS

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

NET POSITIVE SUCTION HEAD (NPSH)

Avoiding the Perils of Cavitation,
W77-08674 1018 8C

NETHERLANDS
Introduction to the Knowledge of Freshwater Invertebrates and Their Environment, (In Dutch),
W77-00410 1001 2I

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

Analysis of the Macrofauna-Community on Stratiotes Vegetations,
W77-09489 1019 5C

A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

NETS
Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

NETWORK ALGORITHM
Network Approach to Optimal Wastewater Treatment System Design,
W77-07531 1015 5D

NETWORK DESIGN
Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

A Bivariate-Regression Model for Estimating Chemical Composition of Streamflow or Groundwater,
W77-02317 1005 5B

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

Design and Optimization of Ground-Water Monitoring Networks for Pollution Studies,
W77-04759 1010 5A

Surface Water Network Design by Regression Analysis Simulation,
W77-06963 1014 2E

Optimal Spatial Interpolation and Its Errors in the Case of Various Distances Between Observation Points or Watershed Centres,
W77-07677 1016 4D

Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands,
W77-09995 1020 5B

An Evaluation of Precipitation Gage Density in a Mountainous Terrain,
W77-10800 1021 2B

Design of Surface Water Data Networks for Regional Information,
W77-12154 1023 7A

NETWORK EVALUATIONS
Network Evaluation of Wastewater Collection Economics,
W77-08331 1017 5D

NETWORKS
A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

Design of Surface Water Data Networks for Regional Information,
W77-01885 1004 7A

Operational Arrangement of Raingauge Stations in Forecasting Flash Floods,
W77-01938 1004 4A

Optimal Raingage Densities and Accumulation Times: A Decision-Making Procedure,
W77-02798 1006 2B

Least Cost Control Strategies in Urban Drainage Design -- A Dynamic Programming Approach,
W77-04007 1008 4A

Link Length Organization and Network Scale Dependencies in the Network Diameter Model,
W77-05161 1011 4A

Network Design for the Estimation of Areal Mean of Rainfall Events,
W77-05194 1011 2B

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

Network Characteristics in Suburbanizing Streams,
W77-08830 1018 4C

Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

SWAN, A Sewer Analysis and Modeling System,
W77-09206 1019 5D

Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
W77-10013 1020 7C

Variability and Error in Rainfall Over a Small Tropical Watershed,
W77-10769 1021 2B

The Development of Modelling and Simulation Techniques Applied to a Computer-Based Telecontrol Water Supply System,
W77-10826 1022 4A

Static and Dynamic Simulation of Water Transport in a Complex Network System,
W77-10828 1022 5B

Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

Low Cost Drainage Networks,
W77-10833 1022 4A

On Determining Distances Through Stream Networks,
W77-11225 1022 4A

Engineering Analysis of Water-Distribution Systems,
W77-11764 1023 4A

NEUROMUSCULAR ACTIVITY
Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

NEUSE ESTUARY (NC)
A Dynamic Water Quality Model for the Neuse Estuary, N.C.,
W77-10037 1020 5B

NEUSE RIVER ESTUARY (NC)
Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

NEUSE RIVER (NC)
Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

NEUSIEDLERSEE (AUSTRIA)
Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

NEUTRALIZATION
Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

NEUTRALIZATION

Method of Reducing Lead and Acid Waste Contamination in Battery Plant Operation,
W77-12922 1024 5D

NEUTRON ABSORPTION

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

Effects of Irrigation Scheduling and Coordinated Delivery on Irrigation and Drainage Systems,
W77-12504 1024 3F

NEUTRON ACTIVATION ANALYSIS

Trace Metal Detection in Aquatic Environments by Activation Analysis of Naiad Shells,
W77-01820 1004 5A

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

Metals in the Water, Sediments and Biota of the Haw and New Hope Rivers, North Carolina,
W77-12254 1024 5A

NEUTRON METERS

Determination of Hydraulic Parameters to Estimate Water Movement and Water Storage in Undisturbed Soil: Comparison of Field and Laboratory Methods, (In German),
W77-09624 1020 2G

NEUTRON PROBES

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

NEUTRONS

Determination of Uranium in Natural Water by Preconcentration on Anion-Exchange Resin and Delayed-Neutron Counting,
W77-05682 1012 5A

NEVADA

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

Corrosion of Selected Materials in Lake Mead Water,
W77-02832 1006 8G

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

Report on Pollution in Las Vegas Wash and Las Vegas Bay.
W77-03371 1007 5C

Water for Nevada. Water Planning Report.
W77-03545 1007 6B

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

Uniqueness of a Model of Steady-State Groundwater Flow,
W77-06001 1012 2F

California-Nevada Interstate Compact.
W77-06575 1013 6E

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

Nitrogen Contamination Sources in Shallow Ground Water, Las Vegas Area, Nevada,
W77-07141 1015 5B

Final Report on The Pyramid Lake Pilot Project, 1970-1975, Volume 1, Text of Report,
W77-07566 1015 3B

Final Report on the Pyramid Lake Pilot Project, 1970-1975, Volume 2, Appendices,
W77-07567 1015 3B

Areal Extent of Snow Estimation in the Northern Sierra Nevada Mountains Using LANDSAT-1 Imagery,
W77-08081 1016 7B

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

Water Resources Data for Nevada, Water Year 1975,
W77-08185 1017 7C

Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Segmented Population Model of Primary Productivity,
W77-09512 1019 5C

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

Summary Appraisals of the Nation's Ground-Water Resources--Great Basin Region,
W77-11873 1023 4B

Water Resources Data for Nevada, Water Year 1976.
W77-12386 1024 7C

An Empirical Method for Simulation of Water Tables by Digital Computers,
W77-12546 1024 2F

NEVADA STATE WATER PLAN

Water for Nevada. Water Planning Report.
W77-03545 1007 6B

NEVAGISSEY BAY (U.K.)

The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

NEW BEDFORD HARBOR (MA)

Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

NEW CASTLE COUNTY RIVER BASIN (DEL)

State of Delaware New Castle County River Basin, Water Quality Management Plan.
W77-04856 1010 5G

NEW ENGLAND

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

Seasonal Snow Accumulation, Melt and Water Input--A New England Model,
W77-00646 1002 2A

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Connecticut River Basin Program. Part III, Phase I. Water Quality Reconnaissance for the Connecticut River Supplemental Study.
W77-04871 1010 5G

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

Coastal Zone Management Focus on New England; An Annotated Selected Bibliography,
W77-09241 1019 6B

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

NEW ENGLAND RIVER BASINS COMMISSION
A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

NEW GUINEA
Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Alternative Measures of River Channel Shape and Their Significance,
W77-08241 1017 8B

NEW HAMPSHIRE
Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

The Waste Treatment Facility of Monadnock Paper Mills, Inc.
W77-01641 1004 5D

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

Hydrodynamic Model of the Great Bay Estuarine System,
W77-02667 1006 2L

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Water Pollution Control Act of 1972, Regional Impacts, Merrimack-Nashua River Basin.
W77-04310 1009 5G

The Role of Zooplankton in the Intrabiocoenotic Phosphorus Cycle and Factors Affecting Phosphorus Excretion in a Lake,
W77-05312 1011 5C

The Characterization of Phosphorus Excretion Products of a Natural Population of Limnetic Zooplankton,
W77-05313 1011 5C

Amend the Federal Boat Safety Act of 1971 (Hearings on S. 3214 to Declare Certain Waters of New Hampshire to Be Non-navigable for Certain Purposes).
W77-07255 1015 6E

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

* Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

NEW HARBOR (MAINE)
Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

NEW JERSEY
Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Computer Simulation Model of the Pleistocene Valleyfill Aquifer in Southwestern Essex and Southeastern Morris Counties, New Jersey,
W77-00865 1002 2F

Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

An Evaluation of Water Quality Information: A Case Study of Streams in Metropolitan New Jersey,
W77-02448 1005 5A

Digital-Simulation Model of the Wenonah-Mount Laurel Aquifer in the Coastal Plain of New Jersey,
W77-02975 1006 2F

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

Estimation of Areal Average Precipitation Using Different Network Densities and Averaging Techniques,
W77-05109 1011 2B

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
W77-06505 1013 5A

Impact of Oil Spillage from World War II Tanker Sinkings,
W77-06877 1014 5C

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

Geohydrology of the Englishtown Formation in the Northern Coastal Plain of New Jersey,
W77-08175 1017 2F

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

Lansco, Inc. v Department of Environmental Protection (Insuror's Liability for Cost of Clean Up of Oil Spills).
W77-09574 1019 6E

Nitrification Potential of River Environments,
W77-10265 1021 5C

Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

Water Resources Data Bank in New Jersey and Computations of Extreme Flows,
W77-10830 1022 7C

Water Resources Data for New Jersey, Water Year 1975.
W77-10854 1022 7C

Suspended Sediment in the Littoral Zone at Ventnor, New Jersey, and Nags Head, North Carolina,
W77-10888 1022 2L

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Atlantic City Electric Company v Bardin (State's Right to Grant and Set Consideration for Lands Held in Public Trust).
W77-11186 1022 6E

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

A Test of Alternatives for Meeting Public Potable Water Requirements,
W77-12159 1023 5G

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

NEW LEAD BELTS (MO)

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

NEW MEXICO

Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

Erosion and Sediment Yield in New Mexico,
W77-00782 1002 2J

Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

Unappropriated Water in Underground Water Basin.
W77-01014 1002 6E

Seventeen-Year Sediment Production from a Semiarid Watershed in the Southwest,
W77-01433 1003 4D

Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
W77-01956 1004 5G

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Water Fowl Refuge Effect on Water Quality: I. Bacterial Populations,
W77-02513 1005 5C

Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Ground-Water Levels in New Mexico, 1975,
W77-03330 1007 7C

Augmentation of 1968-1972 Winter Storms in New Mexico,
W77-03838 1008 3B

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

State V Aamodt (Reserved Water Rights of Pueblos Superior to State Appropriation Laws).
W77-04378 1009 6E

Appropriation and Use of Water (Permits and Licenses; Construction of Works).
W77-04380 1009 6E

Wastewaters in the Vadose Zone of Arid Regions: Geochemical Interactions,
W77-04755 1010 2K

The Conservancy Act of New Mexico (Creation and Powers of Conservancy Districts),
W77-05076 1010 6E

Revegetating Coal Mine Spoils in New Mexico: A Laboratory Study,
W77-05114 1011 5G

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Hydrologic Unit Map--1974, State of New Mexico.
W77-05282 1011 7C

Water Rights in General.
W77-06061 1012 6E

Chemical Dynamics of a Confined Limestone Aquifer,
W77-06399 1013 2F

Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer,
W77-06658 1014 5B

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Pecos River Compact.
W77-07262 1015 6E

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

Interstate Stream Commission (Creation, Membership, General Powers).
W77-08402 1017 6E

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

Flood Plain Information: Albuquerque Arroyas, Part V, Albuquerque, New Mexico.
W77-08611 1018 4A

Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

Water-Use Leasing Act.
W77-09010 1018 6E

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

WAMIS Abstracts, No 2,
W77-09256 1019 10C

Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

Water Quality in Vicinity of Fenton Hill Site, 1975,
W77-11129 1022 5A

Underground Waters.
W77-11203 1022 6E

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Minimizing the Salt Burden of Pecos River Irrigation Drainage Water,
W77-12754 1024 5G

Hydrosalinity Modeling of Irrigation Return Flow in the Mesilla Valley, New Mexico,
W77-12759 1024 5B

NEW ORLEANS (LA)

The Port of New Orleans and Its Dredging Program,
W77-07348 1015 8D

NEW RIVER BASIN (TENN)

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

NEW RIVER (VA)

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

NEW RIVER (VIRGINIA)

Observations of an Ash Lagoon Spill on the New River, Virginia,
W77-12219 1023 5B

NEW SOUTH WALES

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Effects of Soil Conservation Treatment on Runoff and Sediment Loss from a Catchment in Southwestern New South Wales, Australia,
W77-02772 1006 4D

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

NEW SOUTH WALES (AUSTRALIA)

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

NEW YORK

Floodflow Characteristics at Proposed Bridge Site on Fishkill Creek, Fishkill, New York,
W77-00483 1001 4C

Maximum Known Stages and Discharges of New York Streams Through 1973,
W77-00485 1001 7C

Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Navigation Law, Section 89-b.
W77-01013 1002 6E

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

Unsteady Groundwater Flow Beneath Strip Oceanic Islands,
W77-01143 1003 2F

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

Annotated Bibliography of the Lakes, Ponds, and Reservoirs of New York State Through 1974 (Exclusive of Lakes Erie and Ontario),
W77-01418 1003 2H

Manure Disposal, Pollution Control, and the New York Dairy Farmer,
W77-01528 1003 5D

The Tides of the East River, New York,
W77-01617 1004 2L

Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Program for Preventing and Eliminating Oil Pollution of the Buffalo River,
W77-01782 1004 5A

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Evidence of Salt-Water Intrusion in Southeastern Long Island,
W77-01924 1004 5B

Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Optimizing Selection of Marine Retaining Walls,
W77-02072 1004 8F

Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Seasonal Variations in Concentrations of Nitrate and Total Phosphorus, and Calculated Nutrient Loading for Six Lakes in Western New York,
W77-02588 1006 5C

Ecological Modeling and Estimation of Stress,
W77-02622 1006 5C

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Contaminants in the New York Bight,
W77-02799 1006 5B

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Effects of Hurricane Surge Barrier on Hydraulic Environment, Jamaica Bay New York; Hydraulic Model Investigation,
W77-02966 1006 8B

Precipitation Chemistry Studies at Lake George: Acid Rains,
W77-03098 1007 5A

Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

Infiltration/Inflow Improvements in the Oyster Bay Sewer District,
W77-03401 1007 5D

Boyer V Dept of Health (Location of Leach Field Relative to Water Supply).
W77-03713 1008 6E

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

Kravec V State (Interior Land Owners' Right to Bridge State's Drainage Ditch Easement).
W77-03718 1008 6E

Nearshore Currents Off Long Island,
W77-03754 1008 2L

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

The Production and Recognition of Aeolian Features on Sand Grains by Silt Abrasion,
W77-03999 1008 2J

Short, Large Diameter Screens Prove Effective,
W77-04120 1009 8G

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

Floods in New York, 1973 and 1974,
W77-04231 1009 2E

Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Coastal-Zone Planning: An Integrated Approach,
W77-04464 1009 2L

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

Cleaner: The Lake George Model,
W77-04495 1009 6G

The Contribution of Fertilizer to the Ground Water of Long Island,
W77-04758 1010 5B

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

Sediment Study, Lake George, New York: Trace Metals (Fe, Mn, Cu, Cr, Zn) Organic Carbon, Man's Activities,
W77-05231 1011 5C

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

An X-Z Hydraulic/Thermal Model for Estuaries,
W77-05358 1011 5B

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

Nonpoint Source Pollution from Agricultural Runoff,
W77-06003 1012 5B

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

Leachate Plumes in a Highly Permeable Aquifer,
W77-06331 1013 5B

Hylan Flying Service, Incorporated v. State (State Construction of Drainage Ditch on Private Land Constitutes Compensable Taking).
W77-06564 1013 6E

People and the Sound. Water Management.
W77-06594 1013 6B

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

Nutrient Removal and Sludge Disposal Within Septic Systems-Phase III,
W77-06686 1014 5D

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Rappl and Hoenig Company, Incorporated v. New York State Department of Environmental Conservation (Applicability of Fresh Water Wetlands Act to Artificially Created Wetlands).
W77-07269 1015 6E

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

Studies on the Role of Detritus in Fresh Water Lakes,
W77-08001 1016 5C

Chemical Interactions in a Eutrophic Lake,
W77-08002 1016 5C

Russo V. New York Dept. of Environmental Conservation (Limits of State Regulations Restricting Alteration of Wetlands).
W77-08388 1017 6E

Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Water Resources Data for New York, Water Year 1975.
W77-08485 1017 7C

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

Mc Cormick V Lawrence (Constitutionality of New York Statute Aimed at Promoting Governmental Interest in Preserving Appearance of an Area).
W77-09004 1018 6E

Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

Nitrate Dynamics in Fall Creek, New York,
W77-09431 1019 5B

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

People v Texaco, Inc (County Regulation of Tidewater Bordering on or Lying Within its Boundaries).
W77-11204 1022 6E

Regionalized Drought Flow Hydrographs from a Mature Glaciated Plateau,
W77-11221 1022 2E

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

Flood Plain Information: Chadakoin River, Jamestown-Falconer, New York.
W77-11841 1023 4A

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

NEW YORK BIGHT

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

Hydrogen Sulfide in Bottom Water Near a Sewage Sludge Dumping Site,
W77-00620 1002 5A

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Abstracts. Special Synposium - The Middle Atlantic Continental Shelf and New York Bight,
W77-02678 1006 5C

Contaminants in the New York Bight,
W77-02799 1006 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

Winter Conditions in te New York Bight, 1973-1974.
W77-03380 1007 5C

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

Distribution and Abundance of Heavy Metals in Finfish, Invertebrates and Sediments Collected at a Deep Water Disposal Site,
W77-04046 1008 5B

Atmospheric Trace Metals Over the New York Bight,
W77-04195 1009 5B

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Waste Disposal,
W77-04847 1010 5E

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04942 1010 5C

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

A Self-Contained Facility for Analyzing Near-Bottom Flow and Associated Sediment Transport,
W77-06874 1014 2L

The New York Bight Project - 1975; Stony Brook, Long Island, New York.
W77-06876 1014 5G

Long Island Beach Pollution: June 1976,
W77-07325 1015 5B

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

An Analytical Sea Current Model for Coastal Regions with Application to the New York Bight,
W77-07744 1016 2L

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

A Conceptual Representation of the New York Bight Ecosystem,
W77-08900 1018 5B

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Aquaculture,
W77-11665 1023 5G

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

NEW YORK CITY

Sewering The City of New York,
W77-00070 1001 5D

City of York V. Pennsylvania Department of Environmental Resources (Delegation of Authority Under the Pennsylvania Waste Management Act).
W77-08403 1017 6E

NEW YORK HARBOR

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

Variations of Coliform Bacteria and Other Pollution Indices in Surface Waters.
W77-03539 1007 5B

Preliminary Studies of Menhaden and Their Mass Mortalities in Long Island and New Jersey Waters,
W77-07724 1016 5C

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

NEW YORK-LAKE CHAMPLAIN DRAINAGE BASIN

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

NEW YORK METROPOLITAN REGION

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

NEW YORK (NY)

Effluent Charges and Political Realities--A Qualification,
W77-00392 1001 5G

NEW YORK'S WILD SCENIC AND RECREATIONAL RIVERS SYSTEM ACT

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

NEW YORK TIDAL WETLANDS ACT
Russo V. New York Dept. of Environmental Conservation (Limits of State Regulations Restricting Alteration of Wetlands).
W77-08388 1017 6E

NEW ZEALAND
Some Differences Between Distributing and Braiding Channels,
W77-00376 1001 2E

Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Data Processing: A Review of the Role of the Ministry of Works and Development,
W77-00378 1001 7C

Seasonal Succession and Vertical Distribution of Phytoplankton in Lake Hayes and Lake Johnson, South Island, New Zealand,
W77-00517 1001 5C

Heavy Metals in Some New Zealand Commercial Sea Fishes,
W77-00660 1002 5C

The Resultant Direction and Inclination of Rainfall at Taita Experimental Station, New Zealand,
W77-01133 1003 2B

The Resultant Direction and Inclination of Rainfall at Arahura, Wairarapa, New Zealand,
W77-01134 1003 2B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

Breeding Biology of a Non-Diadromous Galaxiid, Galaxias Vulgaris Stokell, in a New Zealand River,
W77-07389 1015 5C

The Measurement of Rainfall at Ground Level,
W77-08061 1016 2B

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Growth of Tropical and Temperate Grasses at Palmerston North I. Warm-Season Yields With and Without Irrigation,
W77-08457 1017 3F

Grain-Size Parameters of Insoluble Residues in Mixxed Terrigenous-Skeletal Carbonate Sediments and Sedimentary Rocks: Some New Zealand Examples,
W77-08848 1018 2L

The Spacial Distribution of Groundwater Discharge into the Littoral Zone of a New Zealand Lake,
W77-09341 1019 2F

Contamination of Drinking Water by Corrosion of Copper Tubes,
W77-10735 1021 5B

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

Two New Methods for Obtaining Water Samples from Shallow Aquifers and Littoral Sediments,
W77-12310 1024 7B

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

NEW ZEALAND (WATER AND SOIL CONSERVATION ACT)
Water Law in New Zealand,
W77-12883 1024 6E

NEWARK BAY (NJ)
Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

NEWMAN LAKE BASIN (WASH)
Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

NEWMAN LAKE (WASH)
Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

NEWPORT RIVER ESTUARY (NC)
Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

NEWSPAPERS
Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

NEWTON CREEK (NY)
Oxygen Aeration at Newton Creek,
W77-08526 1017 5D

NEWTS
Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Dose-Dependent Effects of Methylmercury on Limb Regeneration of Newts (Triturus Viridescens),
W77-08699 1018 5C

NIAIDS
A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

NICHESM
Expansion of the Range of Some Fish Species in Connection with Hydraulic Engineering Construction on the Volga and Acclimatization Works, (In Russian),
W77-08715 1018 8I

NICKEL
Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Water Hyacinths for Removal of Cadmium and Nickel from Polluted Waters,
W77-03041 1006 5G

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Uptake and Accumulation of the Nickel Ion by Mytilus edulis,
W77-07198 1015 5C

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

NICKEL PLATING INDUSTRY WASTES
Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

NICKEL REFINERY
Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

NIGER
Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

NIGER RIVER
The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

NIGERIA
A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Variability and Error in Rainfall Over a Small Tropical Watershed,
W77-10769 1021 2B

Conservation in Kano,
W77-11993 1023 4B

NIGERIA (SUDAN SAVANNA REGION)
Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

NIGERIA (SUDAN SAVANNA ZONE)
Improving Food Crop Production in the Sudan Savanna Zone of Northern Nigeria,
W77-08459 1017 3F

NIGERIA (ZARIA PROVINCE)
Environmental Impact Analysis: A Case Study of the Environmental Impact of the Construction of a Dam in Zaria Province,
W77-06352 1013 6G

NIGROGEN
Treatment of Livestock Wastes by a Barriered Landscape Water Renovation System,
W77-03116 1007 5D

NILE CONE
Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

NILE RIVER
Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

NILE RIVER (EGYPT)
Use of Cross-Correlation Techniques for Determining the Relationship Between Groundwater Levels and Sources in the Nile Delta Area,
W77-07679 1016 2F

Biochemical and Physiological Changes in Egyptian Nile Fish Subjected to Varying Levels of Gamma Irradiation,
W77-10412 1021 5C

NIMBUS 5
Seasonal Oceanic Precipitation Frequencies from Nimbus 5 Microwave Data,
W77-10105 1021 2B

NINLINEAR ESTIMATION
Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

NIOBIUM
Substantiation of the Maximum Permissible Concentration of Niobium in Water Bodies, (In Russian),
W77-00529 1002 5C

NIOBRARA RIVER (NEB)
The Sedimentary Influence of a Tributary Stream Growth of the Niobrara Delta,
W77-00824 1002 2J

NIPIGON BAY (ONT)
Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

NIPIGON BAY (ONTARIO)
Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

NIRMALI SEED (TREATMENT)
Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

NITRATE
Nitrogen Balance in the Southern San Joaquin Valley,
W77-09284 1019 5B

NITRATE FERTILIZER
Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

NITRATE LEACHING
Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

NITRATE MOVEMENT
Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

NITRATE-NITRITE RECOVERY
Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

NITRATE-NITROGEN
Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Versatile Multirange Analytical Manifold for Automated Analysis of Nitrate-Nitrogen,
W77-00285 1001 5A

Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

Nitrate-Nitrogen Movement Through Soil as Affected by Soil Profile Characteristics,
W77-09427 1019 5B

Nitrate-N and Total N Concentration Relationships in Several Plant Species,
W77-12176 1023 3F

NITRATE-NITROGEN CONCENTRATIONS (SOILS)
Sampling the Unsaturated Zone of Irrigated Lands for Reliable Estimates of Nitrate Concentrations,
W77-09974 1020 2G

NITRATE-NITROGEN REMOVAL
Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

NITRATE REDUCTASE ACTIVITY
Maximizing Stomatal Control and Root System to Optimize Water-Use Efficiency in Soybeans,
W77-02077 1005 3F

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Soil Aeration, Nitrate Reduction and Flooding Tolerance in Higher Plants,
W77-11517 1023 3C

NITRATE REDUCTASE ACTIVITY (CORN)
Activity of Nitrate Reductase in the Aboveground Part of Corn Under Conditions of Salinization of the Medium, (In Russian),
W77-01599 1004 3C

NITRATE REDUCTASE (PLANTS)
Rapid Detection of Various Kinds of Herbicides in Water by the in Vivo Determination of Nitrate Reductase Activity in Lemna Minor, (In French),
W77-04261 1009 5C

NITRATE REDUCTION (SOILS)
Comments on Nitrate Reduction in Unsaturated Soil,
W77-09650 1020 2G

NITRATE REMOVAL
Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

NITRATE RESPIRATION
Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

NITRATES
The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures. III, (In Dutch),
W77-00111 1001 5D

Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Versatile Multirange Analytical Manifold for Automated Analysis of Nitrate-Nitrogen,
W77-00285 1001 5A

Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

Short Term Nitrate Losses and Associated Microbial Populations in Soil Columns,
W77-00309 1001 2G

Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

Nitrate Reduction and Nitrite Utilization by Nitrifiers in an Unsaturated Hanford Sandy Loam,
W77-00478 1001 5B

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

Soil Nitrate Loss During Irrigation: Enhancement by Plant Roots,
W77-01268 1003 3F

A New Method for the Determination of Nitrates in Drinking Water,
W77-01278 1003 5A

The Relationship Between Nitrate Concentrations in the Southern Appalachian Mountain Streams and Terrestrial Nitrifiers,
W77-01423 1003 5B

Manure Management in a 700-Head Swine Finishing Unit in the American Midwest: An Integrated System Incorporating Hydraulic Manure Transport with Recycled Anaerobic Lagoon Liquor and Final Effluent use by Corn (Zea Mays),
W77-01531 1003 5D

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Activity of Nitrate Reductase in the Aboveground Part of Corn Under Conditions of Salinization of the Medium, (In Russian),
W77-01599 1004 3C

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

Denitrification of Nitrified Septic Tank Effluent,
W77-02347 1005 5D

Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

Seasonal Variations in Concentrations of Nitrate and Total Phosphorus, and Calculated Nutrient Loading for Six Lakes in Western New York,
W77-02588 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

A New Method of Automatic Determination of Nitrate in Waste Waters and Polluted Surface Waters (Ein Neues Verfahren Zur Automatischen Nitrat-Bestimmung in Abwaessern und Belasteten Oberflaechenwaessern),
W77-03466 1007 5A

Nitrate Monitoring.
W77-03468 1007 5A

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Water Pollution of the Rivers Flowing Eastwards into the Bay of Ise, (In Japanese),
W77-04080 1008 5B

The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas Which May Contribute to Drinking Water Supplies. A Preliminary Review,
W77-04128 1009 5B

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Biological Action of Nitrates in Drinking Water, (In Russian),
W77-04560 1009 5A

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Prediction of Future Nitrate Concentrations in Ground Water,
W77-04757 1010 5B

Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Biochemical Reactor Analysis,
W77-05334 1011 5D

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

Nitrate and Chloride in Ground Water Under Irrigated Agriculture in Central Wisconsin,
W77-06313 1013 5B

Black and White Episodes,
W77-06364 1013 5A

USGS Scientists Bring California Water Supply into Compliance with Federal Regulations,
W77-06853 1014 5G

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Nitrate in Ground Water and Its Relation to Fertilization, (In German),
W77-07112 1015 5B

Nitrogen Contamination Sources in Shallow Ground Water, Las Vegas Area, Nevada,
W77-07141 1015 5B

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

Uptake of Dissolved Ammonium and Nitrate Ion by the Fry of Common Carp, Crucian Carp and Loach from Surrounding Water, (In Japanese),
W77-07314 1015 5C

The Role of Phosphate in Eutrophication. Stimulation of Plankton Growth and Residence Times of Inorganic Phosphate in Lake Kinneret Water,
W77-07517 1015 5C

The Changes in Inorganic Nitrogen Concentration of Drinking Water from Wells Over a Two Year Period in Ani-Machi, Ibaraki Prefecture, (In Japanese),
W77-07570 1015 5B

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Nitrates in Some Soil-Water Systems in Quebec, (In French),
W77-07858 1016 5B

The Determination of Nitrates in Water, (In Russian),
W77-07966 1016 5A

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

Factors Affecting the Denitrification Rate in Two Water-Sediment Systems,
W77-08517 1017 5B

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp,
W77-09286 1019 5C

Chemical Reduction of Nitrate by Ferrous Iron,
W77-09426 1019 5A

Nitrate Leakage from Soils Differing in Texture and Nitrogen Load,
W77-09428 1019 2G

Nitrate Dynamics in Fall Creek, New York,
W77-09431 1019 5B

Comments on Nitrate Reduction in Unsaturated Soil,
W77-09650 1020 2G

Simultaneous Transport of Nitrate and Gaseous Denitrification Products in Soil,
W77-09653 1020 5B

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Nitrate and Phosphate Content of Ground and Surface Waters of the White River Drainage, Northwest Nebraska,
W77-09743 1020 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Sampling the Unsaturated Zone of Irrigated Lands for Reliable Estimates of Nitrate Concentrations,
W77-09974 1020 2G

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Bacterial Denitrification - A Review,
W77-10373 1021 5D

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Distribution of Nitrate in Ground Water, Redlands, California,
W77-10558 1021 5B

Transport of Nitrate Ion in Unsteady, Unsaturated Flow in Porous Media,
W77-10595 1021 2G

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Modeling Nitrate Movement and Dissipation in Fertilized Soils,
W77-10975 1022 5B

The Natural Abundance of N15 in the Soil-Water System of a Small Catchment Area,
W77-11081 1022 2G

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

Sampling the Unsaturated Zone in Irrigated Field Plots,
W77-11400 1022 2G

Soil Aeration, Nitrate Reduction and Flooding Tolerance in Higher Plants,
W77-11517 1023 3C

Corn Growth as Affected by Ammonium vs. Nitrate Absorbed from Soil,
W77-12124 1023 3F

Defoliation and Fertilizer Nitrogen Effects on Nitrate-Nitrogen Profiles in Maize,
W77-12131 1023 3F

Nitrate-N and Total N Concentration Relationships in Several Plant Species,
W77-12176 1023 3F

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

Nitrate-N Percolation Through Irrigated Sandy Soil as Affected by Water Management,
W77-12830 1024 5B

Nitrogen Nutrition of Rice Plants Measured by Growth and Nutrient Content in Pot Experiments: 4. Role of the Water Regime,
W77-12858 1024 3F

Effects of Continuous Enrichment with Nitrates on Populations of Diatoms Isolated with the Aid of Enclosures in an Oligotrophic Pond, (In French),
W77-12972 1024 5C

NITRIFICATION

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

Nitrate Reduction and Nitrite Utilization by Nitrifiers in an Unsaturated Hanford Sandy Loam,
W77-00478 1001 5B

For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Single-Stage Nitrification-Denitrification,
W77-00590 1002 5D

Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

The Relationship Between Nitrate Concentrations in the Southern Appalachian Mountain Streams and Terrestrial Nitrifiers,
W77-01423 1003 5B

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

The Effect of Ammonia and Ammonia-Sulfur Solutions on Nitrification Rates and Chemical Properties of a Calcareous Soil,
W77-02276 1005 2G

Freeing Waste Water from Nitrogenous CPDS - Using Partially Oxidised Sludge as Source of Organic Carbon.
W77-02339 1005 5D

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

Fluid-Bed Reactor May Cut Sewage Costs.
W77-02367 1005 5D

Activated Sludge Waste Water Treatment Process - Using Succession of Aerobic and Anaerobic Zones to Remove Nitrogenous Material.
W77-03402 1007 5D

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

Origin of Nitrogen Pollution in Surface and Waste Waters (Origines Des Pollutions Azotees Dans Les Eaux Superficielles Et Les Eaux Usees),
W77-03423 1007 5D

Design and Control of Nitrifying Activated Sludge Systems,
W77-03426 1007 5D

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Ecologic Models,
W77-05016 1010 5B

Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Biochemical Reactor Analysis,
W77-05334 1011 5D

Nitrification in an Aquatic Recirculation System,
W77-05631 1012 5C

Effects of Parasiticides on Nitrification,
W77-05632 1012 5C

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Factors Involved in Biochemical Oxidation of Sewage,
W77-06157 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

Factors Affecting Nitrification,
W77-07854 1016 5D

Nitrification in Soil Treated with Domestic and Industrial Sewage Sluge,
W77-07862 1016 5E

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Process Technological Background Regarding New Protective Regulations for Water Bodies-Results of Experiments on Nitrification and Phosphorus Elimination in Zurich and Bern. II. Process Technological Background of Nitrification in Activated Sludge Plants (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutz-Anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. II. Verfahrenstechnische Grundlagen der Nitrifikation in Belebtschlammanlagen),
W77-07953 1016 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-08623 1018 5D

Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

Nitrification in a Chlorinated Activated Sludge Culture,
W77-09851 1020 5D

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Ammonium Diffusion as a Factor in Nitrogen Loss from Flooded Soils,
W77-09966 1020 5B

Nitrification Potential of River Environments,
W77-10265 1021 5C

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Activated Sludge,
W77-10646 1021 5D

Nitrogen Uptake and Release in a Forested Watershed, Lake Tahoe Basin, California,
W77-10753 1021 5C

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Two Contracts Underway to Complete South Bay Area Water Treatment Plant.
W77-11705 1023 5D

Adaptation to Nitrification of Activated Sludge Systems Treating Highly Nitrogenous Waters,
W77-11706 1023 5D

Effects of Nitrification in the Activated Sludge Process,
W77-11727 1023 5D

Variations in Nitrogen and Organics in Wastewaters,
W77-11735 1023 5D

Nitrification Inhibitor with Fall-Applied vs. Split Nitrogen Applications for Winter Wheat,
W77-11957 1023 3F

NITRIFICATION INHIBITION

Nitrogen Nutrition and Yield of Sugarcane as Affected by N-Serve,
W77-11953 1023 3F

NITRIFYING BACTERIA

Method of Determining the Total Biochemical Oxygen Demand of Sewage with the Use of Various Nitrification Inhibitors, (In Russian),
W77-01579 1004 5A

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Distribution of Nitrifying and Heterotrophic Microorganisms in Cutover Peats,
W77-11651 1023 5C

NITRILES

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

NITRILOTRIACETIC ACID

Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

NTA (Nitrilotriacetic Acid) - An Ecological Appraisal,
W77-02770 1006 5B

Determination of Nitrilotriacetate in Environmental Water by Gas Chromatography of the Trimethylsilyl Ester,
W77-09751 1020 5A

The Effects of NTA on the Chlorine Demand of Various Types of Water,
W77-12480 1024 5C

NITRITE DECOMPOSITION (SOILS)

Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

NITRITE OXIDATION

Biochemical Reactor Analysis,
W77-05334 1011 5D

NITRITE UTILIZATION

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

NITRITES

Nitrate Reduction and Nitrite Utilization by Nitrifiers in an Unsaturated Hanford Sandy Loam,
W77-00478 1001 5B

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Effect of Abate (Diphos) on the General Sanitary Conditions of Water Bodies: II, (In Russian),
W77-01607 1004 5D

Initial Release of Nitrogen from Ureaform Under Field Conditions,
W77-02279 1005 3F

Experimental Nitrite Toxicity in Rainbow Trout and Chinook Salmon,
W77-02581 1006 5C

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Black and White Episodes,
W77-06364 1013 5A

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

Comments on Nitrate Reduction in Unsaturated Soil,
W77-09650 1020 2G

Theoretical Consideration on Nitrite Self-Decomposition Reactions in Soils,
W77-10279 1021 2G

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

NITROCELLULOSE

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

NITROCELLULOSE-MANUFACTURING WASTEWATER

Treatment of Wastewater From Military Explosives and Propellants Production Industry by Physicochemical Processes,
W77-08337 1017 5D

Investigation of the Effectiveness of Polymers in the Treatment of Nirocellulose-Manufacturing Wastewater,
W77-08338 1017 5D

NITROFURAZONE

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

NITROGEN

Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Versatile Multirange Analytical Manifold for Automated Analysis of Nitrate-Nitrogen,
W77-00285 1001 5A

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

Total Nitrogen Using a Sodium Hydroxide Index and Double Sampling Theory,
W77-00297 1001 2G

Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

Relationships Between the Denitrification Capacities of Soils and Total, Water-Soluble and Readily Decomposable Soil Organic Matter,
W77-00311 1001 2G

The Impact of Man on the World Nitrogen Cycle,
W77-00312 1001 5A

Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

Nitrogen and Phosphorus in Wastewater Effluents. (A Preliminary Analysis of National Eutrophication Survey Data Collected During 1972-73 Sampling Period).
W77-00931 1002 5C

Effect of Soil Moisture on Delivery of Nitrogen-15 to Winter Wheat Plants, (In Russian),
W77-01035 1002 2G

Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

A Submodel for Nitrogen Release from Sediments,
W77-02099 1005 5B

Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

Initial Release of Nitrogen from Ureaform Under Field Conditions,
W77-02279 1005 3F

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

Environmental Implications of N Fixation by Soybeans,
W77-02289 1005 3C

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

A Comparison of Nitrogen, Phosphorus, and Carbon in Sediments and Soils of Cultivated and Noncultivated Watersheds in the North Central States,
W77-02292 1005 5G

Nitrogen Losses from Soils of the North Carolina Coastal Plain,
W77-02294 1005 5B

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Nitrogen in Sedimented Organic Matter from Lake Ontario,
W77-02815 1006 5C

Amino Acid and Fractional Composition of Protein of the Vegetative Mass of Corn at Different Levels of Mineral Nutrition and Water Supply, (In Russian),
W77-02918 1006 2I

Effect of Method of Nitrogen Application on Corn (Zea Mays L.) Grown on Irrigated Sandy Soil,
W77-03071 1006 3F

Determining the Most Profitable Nitrogen Fertilization for Corn Production,
W77-03172 1007 3F

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

Origin of Nitrogen Pollution in Surface and Waste Waters (Origines Des Pollutions Azotees Dans Les Eaux Superficielles Et Les Eaux Usees),
W77-03423 1007 5D

Nitrate Monitoring.
W77-03468 1007 5A

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Survival of Fingerling Passing Through a Perforated Bulkhead and Modified Spillway at Lower Monumental Dam, April-May, 1972,
W77-04406 1009 5C

Dissolved Gas Data Report, 1974, Columbia and Lower Snake Rivers,
W77-04408 1009 5A

Pathology of Acute and Chronic Exposure of Salmonid Fishes to Supersaturated Water,
W77-04409 1009 5C

Gas Bubble Disease, Proceedings of a Workshop Held at Richland, Washington, Oct. 8-9, 1974.
W77-04413 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Water Quality Standards,
W77-04436 1009 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Tolerance of Salmonid Eggs, Juveniles and Squawfish to Supersaturated Nitrogen,
W77-04443 1009 5C

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

The Contribution of Fertilizer to the Ground Water of Long Island,
W77-04758 1010 5B

Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Gas Supersaturation Research - 1975, Prescott Facility - NMFS.
W77-05784 1012 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

Analysis of Dissolved Nitrogen in Fish Blood,
W77-06022 1012 5A

Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

Nitrogen Transformations in Soil as Affected by the Fungicides Benomyl, Dyrene, and Maneb,
W77-06093 1012 2G

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

Yield and Nitrogen Utilization by Wheat in Relation to Moisture and Fertility Levels,
W77-06241 1013 3F

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
W77-06279 1013 5C

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Apparatus and Process for Removing Ammonia Nitrogen from Waste Water,
W77-07008 1014 5D

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

Relation Between the Amounts of Fertilizer and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: II. On the Relation Between Livestock Waste Per Unit Area of Basin and the Specific Load of Pollutants in Main Streams Flowing into Nishiura Lake Basin, (In Japanese),
W77-07569 1015 5B

The Changes in Inorganic Nitrogen Concentration of Drinking Water from Wells Over a Two Year Period in Ani-Machi, Ibaraki Prefecture, (In Japanese),
W77-07570 1015 5B

Deposition of Mineral Nitrogen by Rain in the Lamto Savanna, (In French),
W77-07574 1015 5B

In Vitro Effect of Organic Nitrogen and Potassium Additions on Nitrogen Mineralization and on Exchanges Between the Mud and Water of a Pond, (In French),
W77-07575 1015 5B

First Information About N, P Nutrients and the Production of Lake Trasimeno, (In Italian),
W77-07593 1015 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Effects of Trace Elements on Nitrogen Mineralization in Soils,
W77-07864 1016 5B

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-08099 1016 5D

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

Nitrogen Removal from Secondary Effluent by a Laboratory Soil Column,
W77-08607 1018 5B

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

Suitability of New England Soils in Accepting Waste Effluents, Phase II,
W77-09064 1018 5E

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Influence of Crop Management Practices on Nutrient Movement Below the Root Zone in Nebraska Soils,
W77-09279 1019 2G

Nitrogen Balance in the Southern San Joaquin Valley,
W77-09284 1019 5B

A Semiautomated Procedure for Total Nitrogen in Plant and Soil Samples,
W77-09294 1019 2K

Chemical Reduction of Nitrate by Ferrous Iron,
W77-09426 1019 5A

Nitrate-Nitrogen Movement Through Soil as Affected by Soil Profile Characteristics,
W77-09427 1019 5B

Nitrate Leakage from Soils Differing in Texture and Nitrogen Load,
W77-09428 1019 2G

Soil Nitrates Following Four Years Continuous Corn and as Surveyed in Irrigated Farm Fields of Central and Eastern Colorado,
W77-09429 1019 5B

Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

Fate of Fertilizer Nitrogen in a Flooded Rice Soil,
W77-09438 1019 2G

Simplified Long Term Concept for Evaluating Leaching of Nitrogen from Agricultural Land,
W77-09446 1019 5B

Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

Sulfur-Coated Fertilizers for Sugarcane: II. Release Characteristics of Sulfur-Coated Urea and KC1,
W77-09641 1020 3F

Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

Effects of Boron and Nitrogen on Grain Yield and Boron and Nitrogen Concentrations of Barley and Wheat,
W77-09655 1020 3F

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

Nitrogen Control: Design Considerations for Supported Growth Systems,
W77-09848 1020 5D

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: V. Soil Water Content and Method of Nitrogen Application,
W77-09960 1020 2G

Nitrogen, Phosphorus, and Potassium Utilization in the Plant-Soil System: An Analytical Model,
W77-09964 1020 2I

Ammonium Diffusion as a Factor in Nitrogen Loss from Flooded Soils,
W77-09966 1020 5B

Relation Between the Kinetics of Nitrogen Transformation and Biomass Distribution in a Soil Column During Continuous Leaching,
W77-09973 1020 2G

Sampling the Unsaturated Zone of Irrigated Lands for Reliable Estimates of Nitrate Concentrations,
W77-09974 1020 2G

Long-Term Evaluation of Slow-Release Nitrogen Sources of Turfgrass,
W77-09978 1020 3C

The Release of Nitrogen from Sulfur-Coated Urea as Affected by Soil Moisture, Coating Weight, and Method of Placement,
W77-10270 1021 2G

Denitrification Kinetics in Soil Systems: The Significance of Good Fits of Data to Mathematical Forms,
W77-10272 1021 2G

An Evaluation of Sulfur-Coated Urea as a Preplant Total Season Nitrogen Supply for Trellised Tomatoes,
W77-10283 1021 3F

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

The Natural Abundance of N15 in the Soil-Water System of a Small Catchment Area,
W77-11081 1022 2G

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Mulch, Nitrogen, and Irrigation Effects on Growth, Yield, and Nutrient Uptake of Forage Corn,
W77-11390 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

Salt and Sodium Affected Soils in Relation to Nitrogen Utilization by Wheat,
W77-11623 1023 3C

Effects of Nitrification in the Activated Sludge Process,
W77-11727 1023 5D

Effect of Soil Moisture Tension and Amendments on Yields and on Herbage N, P, and S Concentrations of Alfalfa,
W77-11942 1023 3F

Relationship Between Nitrogen Analysis of Soybean Tissues and Soybean Yields,
W77-11944 1023 3F

Long-Term Residual Fertility and Current N-P-K Application Effects on Soybeans,
W77-11945 1023 3F

Salinity Effects on Nitrogen Use by Wheat Cultivar Sonora,
W77-11946 1023 3F

Nitrogen Nutrition and Yield of Sugarcane as Affected by N-Serve,
W77-11953 1023 3F

Influence of Nitrogen, Narrow Rows, and Plant Population on Cotton Yield and Growth,
W77-11956 1023 3F

Nitrification Inhibitor with Fall-Applied vs. Split Nitrogen Applications for Winter Wheat,
W77-11957 1023 3F

Sulfur and Nitrogen Requirements of Sugarcane,
W77-11958 1023 3F

Method and Timing of Nitrogen Application in Rainfed Bajra,
W77-11990 1023 3F

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

Yield and Nitrogen Utilization By Rice as Affected by Method and Time of Application of Labelled Nitrogen,
W77-12121 1023 3F

Comparison of Simulated and Measured Nitrogen Accumulation in Burley Tobacco,
W77-12122 1023 3F

Sugarbeet Yield and Quality as Affected by Nitrogen Level,
W77-12125 1023 3F

Nitrogen Availability to Wheat as Affected by Depth of Nitrogen Placement,
W77-12130 1023 3F

Defoliation and Fertilizer Nitrogen Effects on Nitrate-Nitrogen Profiles in Maize,
W77-12131 1023 3F

Nitrogen Accumulation and Translocation in Corn Genotypes Following Silking.
W77-12174 1023 3F

Nitrate-N and Total N Concentration Relationships in Several Plant Species,
W77-12176 1023 3F

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

Denitrification Measured Directly from Nitrogen and Nitrous Oxide Gas Fluxes,
W77-12180 1023 2K

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

Binary Gas Diffusion of Methane-Nitrogen Through Porous Solids,
W77-12323 1024 2F

Spoon-Feeding Nitrogen.
W77-12520 1024 3F

Budget for Your Nitrogen Ideal Sugarbeets,
W77-12526 1024 3F

Nitrogen Now and Tomorrow,
W77-12527 1024 3F

Effect of Leaf Shape on Response of Cotton to Plant Population, N Rate, and Irrigation,
W77-12534 1024 3F

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

Nitrogen Nutrition of Rice Plants Measured by Growth and Nutrient Content in Pot Experiments: 4. Role of the Water Regime,
W77-12858 1024 3F

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

Nitrogen and Irrigation in Forage Crop Rotations, (In German),
W77-12996 1024 3F

NITROGEN-15

Effect of Soil Moisture on Delivery of Nitrogen-15 to Winter Wheat Plants, (In Russian),
W77-01035 1002 2G

NITROGEN-15 LOSS (SOIL SAMPLES)

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

NITROGEN ASSIMILATION

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

NITROGEN BALANCE

Nitrogen Balance in the Southern San Joaquin Valley,
W77-09284 1019 5B

NITROGEN COMPOUND

Effects of Trace Elements on Urease Activity in Soils,
W77-06165 1013 5C

NITROGEN COMPOUNDS

Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

An Automated Method for the Determination of Low-Level Kjeldahl Nitrogen in Water and Waste Water,
W77-01643 1004 5A

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Freeing Waste Water from Nitrogenous CPDS - Using Partially Oxidised Sludge as Source of Organic Carbon.
W77-02339 1005 5D

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Nitrogen in Sedimented Organic Matter from Lake Ontario,
W77-02815 1006 5C

Carbohydrates and Nitrogenous Compounds in a Number of Higher Aquatic Plants and Dynamics of Their Content During Vegetation, (In Russian),
W77-02919 1006 2I

Activated Sludge Waste Water Treatment Process - Using Succession of Aerobic and Anaerobic Zones to Remove Nitrogenous Material.
W77-03402 1007 5D

Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
W77-03633 1008 3C

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

Land Application of Sewage Sludge: IV. Wheat Growth, N Content, N Fertilizer Value, and N Use Efficiency as Influenced by Sewage Sludge and Wood Waste Mixtures,
W77-07079 1014 5D

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Nitric Acid Subcategory.
W77-08360 1017 5G

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
W77-08984 1018 5G

Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

Lead Effects on Several Enzymes and Nitrogenous Compounds in Soybean Leaf,
W77-09280 1019 5C

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Chemical Quality of Irrigation Water Polluted with Nitrogen Compounds, (In Japanese),
W77-10156 1021 5B

Approach to Liquid Effluent Control in a Nitrogenous Fertilizer Plant,
W77-10370 1021 5G

Effects of Increased Fertilizer Rates on Nitrogen Content of Runoff and Percolate from Monolith Lysimeters,
W77-10773 1021 5G

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

Acute Toxicity of Water-Borne Dimethylnitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

Studies on Appearance Mechanism of Rice Plant Damage by Irrigation Water Polluted With Nitrogen Compounds, (In Japanese),
W77-11515 1023 5B

Adaptation to Nitrification of Activated Sludge Systems Treating Highly Nitrogenous Waters,
W77-11706 1023 5D

Chlorine Dissipation and Toxicity Presence of Nitrogenous Compounds,
W77-12042 1023 5C

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

NITROGEN CONTENT

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

NITROGEN CONTROL

Design Parameters for Animal Waste Treatment Systems - Nitrogen Control,
W77-09393 1019 5D

NITROGEN CYCLE

The Impact of Man on the World Nitrogen Cycle,
W77-00312 1001 5A

Nutrient Recycling and the Stability of Ecosystems: Implications for Forest Management in the Southeastern U.S.,
W77-01420 1003 2K

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Kinetic Response of Perturbed Marine Nitrification Systems,
W77-08946 1018 5C

User's Manual for the M.I.T. Transient Water Quality Network Model--Including Nitrogen-Cycle Dynamics for Rivers and Estuaries,
W77-09519 1019 5B

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

NITROGEN DIOXIDE

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

NITROGEN ENTRAINMENT

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

NITROGEN FIXATION

For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Nitrogen Fixation in the Rhode River Estuary of Chesapeake Bay,
W77-01059 1003 5C

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

Nitrogen Fixation by Algae in Fescuegrass Soil Crusts,
W77-02274 1005 2G

Environmental Implications of N Fixation by Soybeans,
W77-02289 1005 3C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc com-

mune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Nitrogen Fixation in Aquatic Environments--A Critical Study of Acetylene Reduction Assay,
W77-09490 1019 5A

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Relationship Between Nitrogen Fixation (Acetylene Reduction) and the C:N Ratio in a Polluted Coral Reef. Ecosystem, Kaneohe Bay, Hawaii,
W77-10124 1021 5C

Nitrogen Fixation (Acetylene Reduction) In a Salt Marsh Amended with Sewage Sludge and Organic Carbon and Nitrogen Compounds,
W77-11481 1022 5C

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

NITROGEN FIXING ALGA (BLUE-GREEN)

Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

NITROGEN FIXING BACTERIA

The Relationship Between Nitrate Concentrations in the Southern Appalachian Mountain Streams and Terrestrial Nitrifiers,
W77-01423 1003 5B

Relationship Between Nitrogen Fixation (Acetylene Reduction) and the C:N Ratio in a Polluted Coral Reef. Ecosystem, Kaneohe Bay, Hawaii,
W77-10124 1021 5C

NITROGEN ISOTOPE STUDIES

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

NITROGEN LOAD (SOILS)

Nitrate Leakage from Soils Differing in Texture and Nitrogen Load,
W77-09428 1019 2G

NITROGEN LOSS (SOILS)

Effect of Alternate Aerobic and Anaerobic Conditions on Redox Potential, Organic Matter Decomposition and Nitrogen Loss in a Flooded Soil,
W77-00306 1001 5B

NITROGEN LOSSES

Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

NITROGEN PARTIAL PRESSURES

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

NITROGEN PERCENTAGE

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

NITROGEN RECYCLING

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

NITROGEN RELEASE

A Submodel for Nitrogen Release from Sediments,
W77-02099 1005 5B

NITROGEN RELEASE (SOIL)

Nitrogen Release from Isobutylidene Diurea: Soil pH and Fertilizer Particle Size Effects,
W77-12127 1023 3F

NITROGEN REMOVAL

Septic Tank Effluent Movement Through Soil,
W77-02087 1005 5B

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

NITROGEN SATURATION

Nitrogen Saturation Levels on the Mid-Columbia River, 1965-1971,
W77-04442 1009 5C

NITROGEN SATURATION CURVES

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

NITROGEN SATURATION VALUES

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

NITROGEN SOLUBILITIES

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

NITROGEN SOURCES

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

NITROGEN-SPLITTING

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

NITROGEN SUPERSATURATION

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Proposed Research and Development Program in Fiscal Years 1973 and 1974 at Columbia and Snake River Projects for Nitrogen Control,
W77-05089 1010 8A

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

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W77-05772 1012 5C

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W77-05779 1012 5B

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W77-05784 1012 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Gas Bubble Disease,
W77-06018 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

Gas Bubble Disease of Salmonids: A Critical Review,
W77-06920 1014 5

Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

NITROGEN TRANSLOCATION (CORN)
Nitrogen Accumulation and Translocation in Corn Genotypes Following Silking.
W77-12174 1023 3F

NITROGEN TRANSPORT (SOILS)
Denitrification Measured Directly from Nitrogen and Nitrous Oxide Gas Fluxes,
W77-12180 1023 2K

NITROGENOUS BIOCHEMICAL OXYGEN DEMAND
Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

Nitrification Potential of River Environments,
W77-10265 1021 5C

NITROGENOUS OXYGEN DEMAND
A Study on the Strength of Sewage,
W77-07853 1016 5B

NITROSAMINES
Carcinogenic Nitrosamines and Their Precursors in Fresh and Polluted Waters,
W77-00146 1001 5A

Nitrate in Ground Water and Its Relation to Fertilization, (In German),
W77-07112 1015 5B

NITROUS ACID
Theoretical Consideration on Nitrite Self-Decomposition Reactions in Soils,
W77-10279 1021 2G

NITROUS OXIDE
Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Denitrification Measured Directly from Nitrogen and Nitrous Oxide Gas Fluxes,
W77-12180 1023 2K

NITZSCHIA
Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

NITZSCHIA CLOSTERIUM
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

NO. 2 FUEL OIL
Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

NO BYPASS
No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

NOAA-4
A Single Field of View Method for Retrieving Tropospheric Temperature Profiles from Cloud-Contaminated Radiance Data,
W77-06887 1014 2B

NOAA SATELLITE DATA
A Progress Report on Estimating Snow Depth Using VHRR Data NOAA Environmental Satellites,
W77-10682 1021 2C

NOAA SATELLITES
Operational Applications of Satellite Snowcover Observations.
W77-10662 1021 2C

NOAA SATELLITES DATA
Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

NOCARDIA
The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

NOCTILUCA
Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

NOCTURNAL
Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

NODAL SEARCH METHOD
Minimum Cost Design Using a Pre-Planned Nodal Search Method,
W77-05246 1011 4A

NODULATION
Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

NOEMACHEILUS BARBATULUS
Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

NOKAY LAKE (MINN)
Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

NOMOGRAM TECHNIQUE
New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

NOMOGRAMS
A Nomogram to Estimate the Heat-Exchange Coefficient at the Air-Water Interface as a Function of Wind Speed and Temperature; A Critical Survey of Some Literature,
W77-00130 1001 2D

NOMOGRAPHS
Solubility of Oxygen in Water, Saturation Values for Fresh Water and Mixtures of Fresh and Sea Water,
W77-04864 1010 5B

Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

NON-DARCY FLOW
Analysis of Permeameter Data to Obtain Parameters of Non-Darcy Flow,
W77-05148 1011 2G

NON-DESTRUCTIVE TESTS
Water Turbine Pump Failure,
W77-08656 1018 8G

NON-EFFICIENCY GOALS
Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

NON-FILTERABLE RESIDUE
Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

NON-IONIC SURFACTANT
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

NON-ISOTHERMAL GLACIERS
Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

NON-NAVIGABLE WATERS
Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

Amend the Federal Boat Safety Act of 1971 (Hearings on S. 3214 to Declare Certain Waters of New Hampshire to Be Non-navigable for Certain Purposes).
W77-07255 1015 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

NON-NEWTONIAN FLOW
Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

NON-PARASITIC ELEPHANTIASIS
A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

NON-PENETRATING WELLS
Non-Penetrating Well in a Semi-Infinite Medium with Non-Linear Flow,
W77-09114 1019 2F

NON-POINT POLLUTION
Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

NON-POINT POLLUTION SOURCES
Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

The Effects of Water Pollution from Non-Point Sources as It Relates to the Health of Man,
W77-02058 1004 5G

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

NON-POINT RUNOFF
Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

NON-POINT SOURCE POLLUTION
Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

Proceedings: Workshop on Non-Point Sources of Water Pollution.
W77-10159 1021 5G

Problems and Policy Alternatives: Urban Areas,
W77-10160 1021 5G

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

Problems and Policy Alternatives: Construction,
W77-10164 1021 5G

NON-POINT SOURCE PROBLEMS
Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

NON-POINT SOURCES
Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

NON-POINT SOURCES OF POLLUTION
Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

NON-POINT SOURCES (POLLUTION)
State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

NON-POINT WATER POLLUTION SOURCES
Non-Point Sources of Water Pollution.
W77-05007 1010 5B

NON-RIPARIAN OWNERS
Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

NON-SEASONAL MODELS
Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

NON-STRUCTUAL ALTERNATIVES
Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

NON-STRUCTURAL ALERNATIVES
A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

NON-STRUCTURAL ALTERNATIVES
Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

Planning for Storm Water Management,
W77-00770 1002 6F

Flood Plain Management Alternatives in the Maitland Area (Australia),
W77-00932 1002 4A

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

Flood Insurance: The Legal Tide Rises Again.
W77-04563 1009 6F

The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

Flood Plain Information Report, Duck Creek, Scott County, Iowa.
W77-05290 1011 4A

Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Flood Management Study.
W77-06952 1014 6F

Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

Flood Plain Information Report, Indian and Dry Creeks, Linn County, Iowa.
W77-08617 1018 4A

Flood Plain Information: Big and Little Fossil Creeks, Fort Worth, Texas.
W77-09364 1019 4A

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

Flood Plain Information Report, Prairie Creek, Linn County, Iowa.
W77-10909 1022 4A

Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

Des Moines River Flood Plain Information, Des Moines, Iowa.
W77-10914 1022 4A

South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

Flood Plain Information: Upper River Rouge, Farmington, Michigan.
W77-11839 1023 4A

The Application of Nonstructural Measures to Coastal Flooding,
W77-11852 1023 2L

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

NON-SUBMERGED FLOW

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

NON-UNIFORM FLOW

Critical and Brink Depths in Elliptical Sewers,
W77-09841 1020 8B

Nonuniform Flow in Aggrading Channels,
W77-10963 1022 8B

NONFERROUS METALS INDUSTRY

ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

NONFERROUS METALS MANUFACTURING

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

NONIONIC POLYMERS

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

NONIONIC SURFACTANTS

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

NONLINEAR FLOW

Nonlinear Flow of Wave Crests Past a Thin Pile,
W77-06515 1013 8B

NONLINEAR PROGRAMMING

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Optimal Planning of Flows in Multi-Reservoir Hydro-Power Systems,
W77-06730 1014 4A

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

NONLINEAR REGRESSION MODELS

Prediction Models for Monthly Runoff,
W77-11437 1022 4A

NONLINEAR SURFACE RUNOFF MODEL

Estimation of Parameters of a Uniformly Nonlinear Surface Runoff Model,
W77-11985 1023 2E

NONPOINT POLLUTANTS

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

NONPOINT POLLUTION

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

NONPOINT POLLUTION SOURCES

The Nonpoint Source Pollutant Loading (NPS) Model,
W77-00617 1002 5B

Measurement of Urban Runoff Petroleum,
W77-00678 1002 5B

Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques.
W77-02444 1005 5B

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Loading Functions for Assessment of Water Pollution from Nonpoint Sources,
W77-09726 1020 5B

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

Nonpoint Sources: State-of-the-Art Overview,
W77-12614 1024 5G

Resource Adequacy in Limiting Nonpoint Pollution,
W77-12615 1024 5B

NONPOINT SOURCE POLLUTANTS

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

NONPOINT SOURCE POLLUTION

Temporal Variations in Tributary Phosphorus Loads,
W77-03123 1007 5B

Delaware 1975 State Water Quality Inventory,
W77-03378 1007 5G

NONPOINT SOURCE POLLUTION (FARM WASTES)

Nonpoint Source Pollution from Agricultural Runoff,
W77-06003 1012 5B

NONPOINT SOURCES

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

NONPOINT SOURCES OF POLLUTION

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

NONPOINT SOURCES (POLLUTION)

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

NONPOINT WATER POLLUTION
Nonpoint Sources and Planning for Water Pollution Control,
W77-06461 1013 5B

NONPOINT WATER POLLUTION SOURCES
Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

NONQUANTITATIVE METHODS
Nonquantitative Methods in Water Resources Management,
W77-01348 1003 6B

NONSTATIONARITY
Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

NONSTRUCTURAL ALTERNATIVES
Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

NONUNIFORM FLOW
Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

NONUNIFORMITY
Evaluation of Nonuniformity in Irrigation and Yield,
W77-12628 1024 3F

NORDLAND COUNTY (NORWAY)
The Macrophyte Vegetation of Five Lakes in Vefsn, Nordland County, North Norway, (In Norwegian),
W77-00823 1002 5C

NORFOLK (VA)
Artificial Recharge to a Freshwater-Sensitive Brackish-Water Sand Aquifer, Norfolk, Virginia,
W77-09066 1018 4B

NORMAL DEVELOPMENT
Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

NORTH AMERICA
The Scales of Hail,
W77-11598 1023 2B

NORTH ANNA RIVER (VA)
Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

NORTH ATLANTIC
High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-06911 1014 5B

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

NORTH ATLANTIC OCEAN
North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

NORTH ATLANTIC SLOPE BASINS
Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 3. Basins from Maryland to York River.
W77-02307 1005 7C

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

NORTH ATLANTIC TREATY ORGANIZATION (NATO)
Inland Water Pollution.
W77-01697 1004 5G

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

NORTH BISCAYNE BAY (FLA)
Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

NORTH BRANCH (MA)
Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

NORTH CAROLINA
Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

Dize Awning and Tent Co V Winston-Salem (Right to Increase Rate of Flow from Creek Watershed Under Easement of Servitude).
W77-00994 1002 6E

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

Nitrogen Losses from Soils of the North Carolina Coastal Plain,
W77-02294 1005 5B

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

Falls Lake Water-Quality Study; Hydraulic Laboratory Investigation,
W77-02941 1006 5B

B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

Rehabilitation of Pamlico Sound Oyster Producing Grounds Damaged or Destroyed by Hurricane Ginger,
W77-03562 1007 6B

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

A Sensible Alternative to Stream Channelization,
W77-04388 1009 4A

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

Beach Fill Planning - Brunswick County, North Carolina,
W77-04471 1009 2L

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Coastal Sand Dunes,
W77-05405 1011 2L

Scenery for Sale,
W77-05406 1011 6G

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

Exchange Through a Barrier Island Inlet: Additional Evidence of Upwelling Off the Northeast Coast of North Carolina,
W77-06654 1014 2L

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

Impact of Oil Spillage from World War II Tanker Sinkings,
W77-06877 1014 5C

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Circulation and Surge Modeling in Pamlico Sound, N.C.,
W77-07320 1015 2L

The Dune Book. How to Plant Grasses for Dune Stabilization,
W77-07326 1015 2J

Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Life History Patterns in the Coastal Shiner, Notropis Petersoni, Fowler,
W77-07386 1015 5C

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Mitchell V. City of High Point (Municipal Liability for Damage from Overflow of Privately-Owned Stream).
W77-08145 1017 6E

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

Forest Fertilization and Water Quality in the North Carolina Piedmont,
W77-08508 1017 5B

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

Dune Stabilization with Panicum Amarum Along the North Carolina Coast,
W77-08908 1018 2L

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Water Resources Research Interests in the Colleges and Universities of North Carolina.
W77-08931 1018 9A

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

Inventory of Active Water Resources Research Projects in North Carolina.
W77-08938 1018 9A

Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

The Citizen's Guide to North Carolina's Shifting Inlets,
W77-09327 1019 2L

The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

Animal Colonization of Man-Initiated Salt Marshes on Dredge Spoil,
W77-10035 1020 2L

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

A Dynamic Water Quality Model for the Neuse Estuary, N.C.,
W77-10037 1020 5B

Public Water Supplies of North Carolina, Part 4. Northern Coastal Plain,
W77-10561 1021 6D

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Suspended Sediment in the Littoral Zone at Ventnor, New Jersey, and Nags Head, North Carolina,
W77-10888 1022 2L

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W77-11794 1023 9D

Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

Ecological Determinants of Coastal Area Management. Volume I: An Overview,
W77-11897 1023 6G

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

Flow Dynamics and Sediment Movement in Lockwoods Folly Inlet, North Carolina,
W77-12913 1024 2L

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

NORTH CAROLINA COASTAL AREA MANAGEMENT ACT
The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

NORTH CAROLINA ENVIRONMENTAL POLICY ACT
The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

NORTH-CENTRAL FLORIDA
Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

NORTH CENTRAL U.S.
A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

NORTH CHANNEL (LAKE HURON)
A Preliminary Report on the Benthic Macroinvertebrates of Georgian Bay and North Channel,
W77-01800 1004 5C

NORTH COAST DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

NORTH CREEK (TEX)
Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

NORTH DAKOTA
Hydrologic Unit Map--1974, State of North Dakota.
W77-02031 1004 7C

Plan of Study of the Hydrology of the Madison Limestone and Associated Rocks in Parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming.
W77-03338 1007 4B

Hydrology of Saline Seeps in the Northern Great Plains,
W77-04268 1009 5G

Garrison Diversion Unit Irrigation Project: Prospects and Problems, Part 2.
W77-04365 1009 6E

McNamara V. Westview Building Corporation (Land Owner's Rights Against Drainage from Abutting Property).
W77-06080 1012 6E

United Plainsmen Association V. North Dakota State Water Conservation Commission (Conservation Planning Responsibility of State Engineer Prior to Issuing Water Permits).
W77-06081 1012 6E

Bibliography and Index of North Dakota Water Resources 1878-1970,
W77-07140 1015 10C

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

Water Resources Data for North Dakota, Water Year 1975.
W77-09075 1018 7C

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

Fall Soil Water: Effect on Summer Soil Temperature,
W77-11238 1022 2G

Irrigation Schedules for Sugarbeets on Medium and Coarse Textured Soils in the Northern Great Plains,
W77-12126 1023 3F

Sulfate Saline Water and Its Influence on Selected Aquatic Vertebrates,
W77-12259 1024 3C

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

A Population Profile of the Lower Sheyenne River Basin in North Dakota,
W77-12272 1024 6B

Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

NORTH DANDALUP RIVER
Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

NORTH FORK BIG NEMAHA RIVER (NB)
Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

NORTH FORK LAKE DAM (TEX)
North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

NORTH FORK MAQUOKETA RIVER (IA)
North Fork Maquoketa River and Tributaries Flood Plain Information, City of Dyersville, Iowa.
W77-10929 1022 4A

NORTH GABOURI CREEK (MO)
Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

NORTH INLET ESTUARY (SC)
The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

NORTH PACIFIC OCEAN
Results of R/V Yaquina Cruise Yaloc-74, Leg 3: Seabed Disposal Program, North Pacific Study Area MPG-2, 33 degrees 20'N, 151 degrees 00'W, Nov. 30 - Dec. 21, 1974,
W77-07739 1016 5E

NORTH PLATTE RIVER
Glendo Reservoir; General Provisions.
W77-06073 1012 6E

NORTH PLATTE RIVER BASIN (WYO)
The North Platte River Basin Economic Simulation Model (A Technical Report and Supplement to the Technical Report),
W77-04601 1010 6B

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

NORTH PLATTE RIVER (COLO)
Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

NORTH PLATTE RIVER (NB)
Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

Flood Plain Information: North Platte River, Scottsbluff, Nebraska.
W77-05302 1011 4A

NORTH SEA
Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Petroleum Legislation in the North Sea Countries,
W77-09542 1019 6E

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

NORTH SLOPE (ALAS)
Sludge Dewatering on Alaska's North Slope,
W77-07030 1014 5D

NORTH SLOPE (ALASKA)
Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

NORTH WALES
The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

NORTHEAST ARKANSAS
Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

NORTHEAST U.S.
Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

A Compendium of Lake and Reservoir Data Collected by the National Eutrophication Survey in the Northeast and Northcentral United States.
W77-03784 1008 5C

An Oilspill Risk Analysis for the Mid-Atlantic Outer Continental Shelf Lease Area,
W77-04232 1009 5B

Persistence, Runs and Recurrence of Precipitation,
W77-10110 1021 2B

Fresh Ground Water Stored in Aquifers Under the Continental Shelf: Implications from a Deep Test, Nantucket Island, Massachusetts,
W77-11378 1022 2F

NORTHEAST US
Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

NORTHERN ANCHOVY
Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

NORTHERN AND CENTRAL LEA COUNTY (N MEX)
Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

NORTHERN AND SOUTHWEST IDAHO
Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

NORTHERN GREAT PLAINS
Environmental Effects of Alternative Energy Developments in the Northern Great Plains,
W77-00115 1001 6G

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

NORTHERN HIGH PLAINS (COLO)
Water-Level Records for the Northern High Plains of Colorado, 1973-77,
W77-07486 1015 4B

NORTHERN IRELAND
An Investigation into the Effects of Forestry Plantations on the Water Quality of Upland Reservoirs in Northern Ireland,
W77-03840 1008 5B

Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

NORTHERN UINTA BASIN
Characteristics of Aquifers in the Northern Uinta Basin Area, Utah and Colorado,
W77-10559 1021 2F

NORTHUMBRIAN WATER AUTHORITY (UK)
North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

NORTHWEST AND ARCTIC SLOPE (ALASKA)
Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

NORTHWEST ATLANTIC SHELF
Fisheries and Renewable Resources of the Northwest Atlantic Shelf,
W77-04945 1010 6G

NORTHWEST FLORIDA
Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

NORTHWEST TERRITORIES (CANADA)
Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

NORTON BAY (ALAS)
Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

NORTON SOUND (ALAS)
Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

NORWAY
Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

Waterfowl and Acid Precipitation in Norway, (In Danish),
W77-03841 1008 5C

A Study of Glacier-Dammed Lakes Over 75 Years, Brimkjelen, Southern Norway,
W77-05427 1011 2H

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

The Generation of Residual Flows in Norway: An Input-Output Approach,
W77-06698 1014 5G

The Lateral Movement of the Coastal Water and Its Relation to Vertical Diffusion,
W77-08058 1016 2L

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

Shallow Marine Sand Bar Sequences: An Example from the Late Precambrian of North Norway,
W77-09699 1020 2J

Deep Water Renewal and Associated Processes in North Norway,
W77-09947 1020 2L

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

A Presentation of the Norwegian Effect 'Acid Precipitation-Effects on Forest and Fish',
W77-10724 1021 5C

NORWAY (AUSTERDALSISEN)
Glacial Lake Sedimentation, Austerdalsisen, Norway,
W77-04005 1008 2J

NORWAY (IDDEFJORD)
Algological Observations in the Iddefjord and the Adjacent Fjord Areas, S.E. Norway, (In Norwegian),
W77-05196 1011 5C

NORWAY (MARVANN RESERVOIR)
The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

NORWAY (ORA ESTUARY)
Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

NORWAY (UTSIRA AREA)
Litter and Oil on the Shores of Utsira, Rogaland County, During Autumn 1974, (In Danish),
W77-03125 1007 5B

NORWEGIAN CURRENT
Evidence for Baroclinic Instability of the Norwegian Current,
W77-10107 1021 2L

NORWEGIAN SEA
A Numerical Investigation of the Circulation in the Norwegian Sea,
W77-03750 1008 2L

NOSTOC
Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

NOSY-BE
Zooplankton of the Region of Nosy-Be: VI. Pteropods, Heteropods: I. Holoneritic and Internal-Neritic Species; Contribution to the Study of a Tropical Eutrophic Bay, (In French),
W77-02416 1005 5C

NOTHOLCA GRANDIS
Method of Analyzing Some Experimental Data on Zooplankton, (In Russian),
W77-10038 1020 2I

NOTICE
Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

NOTTOWAY RIVER (VA)
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

NOVA SCOTIA
Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

NOVEL DRILLING TECHNIQUES
Drilling Research to Pay Off by 2000,
W77-12668 1024 8C

NOVOROSSIYSK BAY (BLACK SEA)
The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

NOVOSIBIRSK RESERVOIR (USSR)
Study of Periphyton Productivity in the Novosibirsk Reservoir, (In Russian),
W77-02915 1006 5C

NOXFISH
Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

NSSC (NEUTRAL SULFITE SEMICHEMICAL) PULP MILLS
NSSC Recovery Process Eliminates Five-Day BOD 5 Load and Recovers Chemicals,
W77-04826 1010 5D

NUBIAN SANDSTONE
Water Under the Sand,
W77-02852 1006 4B

NUCLEANT DISPERSION
Colorado River Basin Pilot Project, Comprehensive Evaluation Report, Five Winter Seasons 1970-71 to 1974-75,
W77-03060 1006 3B

NUCLEAR ACTIVATION ANALYSIS
Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

NUCLEAR ENERGY
Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

NUCLEAR MAGNETIC RESONANCE
Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

NUCLEAR METERS
Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

NUCLEAR MOISTURE METERS
The Effect of Bulk Density on Neutron Meter Calibration,
W77-00440 1001 2G

Radiation Hazard from Americium-Beryllium Neutron Moisture Probes,
W77-01324 1003 2G

Soil Moisture Survey Experiment at Phoenix, Arizona,
W77-01914 1004 2G

Research on Efficient Water Use,
W77-12282 1024 2G

NUCLEAR POWER PLANTS
Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

NUCLEAR POWERPLANT EFFECTS
Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

NUCLEAR POWERPLANTS
Economics of Environmental Control Policies,
W77-02047 1004 6G

Water Use Implications for Nuclear Power Stations in the United States of America,
W77-02114 1005 6G

Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

Winter Conditions in te New York Bight, 1973-1974.
W77-03380 1007 5C

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

Coastal Meteorological Networks to Determine Effects of Nuclear Plant Cooling Systems,
W77-06643 1014 2B

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

Discriminant Analysis of Characteristics Determining Acceptance or Rejection of Nuclear Power,
W77-08109 1017 6B

Report to Congress on Abnormal Occurrences: July-September 1975.
W77-09549 1019 6E

Simulation Factors Involved in Ocean Thermal Power Plants,
W77-10034 1020 5B

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

Future Needs for Dry or Peak Shaved Dry/Wet Cooling and Significance to Nuclear Power Plants,
W77-11848 1023 3E

NUCLEAR REACTORS
Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

NUCLEAR SPIN RELAXATION
Some Aspects of Nuclear Spin Relaxation of Adsorbed Water Protons in Biological Matrices, (In Russian),
W77-01563 1004 5A

Some Aspects of Nuclear Spin Relaxation of Water Adsorbate Protons in Biological Matrices, (In Russian),
W77-01564 1004 5A

NUCLEAR WASTES
The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

Train V Colorado Public Interest Research Group, Inc. (No Authority Under Federal Water Pollution Control Act to Regulate Discharge of the Source, by Product and Special Nuclear Materials Covered by Atomic Energy Act).
W77-06560 1013 6E

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

New Opportunities for State Participation in the Control of Radioactive Pollution,
W77-09539 1019 5G

Dose Estimation and Prediction of Radiation Effects on Aquatic Biota Resulting from Radioactive Releases from the Nuclear Fuel Cycle,
W77-10409 1021 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

NUCLEATION
Molecular Studies of the Ice-Forming Capabilities of Different Surfaces,
W77-02487 1005 3B

Colorado River Basin Pilot Project, Comprehensive Evaluation Report, Five Winter Seasons 1970-71 to 1974-75,
W77-03060 1006 3B

A Suggested Technique for the Analysis of Airborne Continuous Ice Nucleus Data,
W77-09361 1019 3B

Ice Nucleation by Micas,
W77-09956 1020 2B

Cloud Condensation Nucleus Size Distributions and Their Effects on Cloud Droplet Size Distributions,
W77-10125 1021 2B

Collection Kernels for the Capture of Silver Iodide Nuclei by Cloud Water Drops,
W77-10308 1021 3B

Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

NUCLEI GENERATORS
Characteristics of Silver Iodide Ice Nuclei Generators Currently Used by SO.R.E.M.,
W77-10309 1021 3B

NUCLEIC-ACIDS
Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

NUISANCE ALGAE
Cladophora in the Great Lakes,
W77-00928 1002 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Occurrence of Oscillatoria Agardhii Gom. in Some Shallow Eutrophic Lakes,
W77-09525 1019 5C

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

NUISANCE (LEGAL ASPECTS)
The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Pollution--No Private Compensation for Invasion of Public Rights Absent Particular Damages, Burgess V the Tamano, 1973 A.M.C. 1939 (D ME 1973),
W77-06546 1013 5G

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

NUISANCE SUITS
Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

NUMBER 2 FUEL OIL
The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

NUMERICAL ANALYSIS
Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

Effect of Sequence Length n On the Choice of Assumed Distribution of Floods,
W77-00861 1002 2E

Numerical Solution of Boussinesq Equation,
W77-02143 1005 2F

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 1, Existing Conditions and Proposed Improvements,
W77-02950 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

Exact Solution of Gradually Varied Flow,
W77-03085 1007 8B

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

A Review of Clustering Techniques with Emphasis on Benthic Ecology,
W77-03372 1007 5A

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

Computational Hydraulics: A Short Pathology,
W77-05797 1012 8B

Numerical Pumping Test Analysis in Unconfined Aquifers,
W77-05805 1012 2F

Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

Transient Three-Dimensional Circulation of Lakes,
W77-08181 1017 2H

Some Computational Aspects of One- and Two-Dimensional Unsteady Flow Simulation by the Method of Characteristics,
W77-08745 1018 2E

The Third London Airport Study,
W77-09037 1018 2L

Criterion to Choose Step Length for Some Numerical Methods Used in Hydrology,
W77-09110 1019 2E

Transform Approach to Solution of Groundwater Flow Equations,
W77-09318 1019 2F

Finite-Element Analysis of Groundwater Flow in Multi-Aquifer Systems, II. A Quasi Three-Dimensional Flow Model,
W77-09362 1019 2F

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

Los Angeles Harbor Numerical Analysis of Harbor Oscillations,
W77-10042 1020 8B

Numerical Modeling of Subsurface Radioactive Solute Transport from Waste-Seepage Ponds at the Idaho National Engineering Laboratory,
W77-10570 1021 5B

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

Groundwater Chemistry and the Transport Equations,
W77-12112 1023 2F

Computation of Backwater and Discharge at Width Constrictions of Heavily Vegetated Flood Plains,
W77-12152 1023 4C

Upper Bay Survey Vol. IV. Numerical Modeling,
W77-12786 1024 5B

NUPHAR LUTEM

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

NUTRIENT AVAILABILITY

Algal Nutrient Availability and Limitation in Lake Ontario During IFGYL. Part 1, Available Phosphorus in Urban Runoff and Lake Ontario Tributary Waters,
W77-10052 1020 5C

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

NUTRIENT BUDGET

Temporal Variations in the Phosphorus Content of a Northern Dystrophic Lake,
W77-02824 1006 5C

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

NUTRIENT BUDGETS

Nutrient Budgets for Lake Erie, 1970,
W77-06351 1013 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

NUTRIENT CARRYOVER

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

NUTRIENT EXCHANGE

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

NUTRIENT FLUX

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

NUTRIENT INACTIVATION

Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

NUTRIENT LOADING

Columbia River Nutrient Study-1972,
W77-09504 1019 5C

NUTRIENT LOADINGS

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

NUTRIENT LOADS

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

NUTRIENT LOSS

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

NUTRIENT LOSSES

Forest Fertilization and Water Quality in the North Carolina Piedmont,
W77-08508 1017 5B

NUTRIENT-POOR RIVERS

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

NUTRIENT RELEASE

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

NUTRIENT REMOVAL

The Effects of Various Tertiary Treatment Nutrient Removal Schemes on Periphyton Communities in Model Laboratory Streams,
W77-00005 1001 5C

Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Is Nutrient Removal Worthwhile,
W77-00065 1001 5D

Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Irrigation of Corn with Simulated Municipal Sewage Effluent,
W77-00610 1002 5E

Nutrients Lost in Debris and Runoff Water From a Burned Chaparral Watershed,
W77-00810 1002 4C

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Septic Tank Effluent Movement Through Soil,
W77-02087 1005 5B

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

Removal Benefits: It Can Be Too Costly,
W77-02436 1005 5D

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Recovery of Polluted Lakes; A Swedish Research Program on the Effects of Advanced Wastewater Treatment and Sewage Diversion: 7. Diffuse Municipal Pollution: Examples from the Towns of Motala and Uppsala, (In Swedish),
W77-03057 1006 5D

Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

Control of Water Pollution from Cropland, Volume 1--A Manual for Guideline Development,
W77-06097 1012 5G

Nutrient Removal and Sludge Disposal Within Septic Systems-Phase III,
W77-06686 1014 5D

Lake Restoration by Bottom Water Siphoning (In German),
W77-06689 1014 5G

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Chemical Interactions in a Eutrophic Lake,
W77-08002 1016 5C

The Solubility of Particulate Phosphorus in the Effluent From Alum Treatment of Wastewater and Phosphorus Solutions,
W77-08500 1017 5D

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

The Use of Wetlands as Nutrient Removal Systems,
W77-09520 1019 5G

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Polymers are Precisely Managed,
W77-10620 1021 5D

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Methods for Improvement of Trickling Filter Plant Performance: Part II - Chemical Addition,
W77-12078 1023 5D

Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

Correlations Between Rain and Runoff Amounts and Composition in Eastern South Dakota,
W77-12308 1024 4A

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

Phosphorus Removal from Waste Water,
W77-12939 1024 5D

NUTRIENT REQUIREMENTS

Evaluation of Proposed Man-Made Ponds for Food Production to Recover Values in Waste Heat and Solid Organic Sludges,
W77-00150 1001 5D

Transport of Carbon14-Assimilates in the Sugar Beet Under Different Conditions of Nutrition and Moisture, (In Russian),
W77-00421 1001 5B

Cladophora in the Great Lakes,
W77-00928 1002 5C

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

The Historic and Present Relationships Between Phytoplankton, Limiting Nutrients, and Sediment-Water Geochemical Processes in Selected Maine Lakes,
W77-06741 1014 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Study of Bacteria Associated with the Rearing of Larvae of Marine Bivalves, (In French),
W77-07599 1015 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

NUTRIENT SOURCES

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

NUTRIENT TRANSPORT

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

NUTRIENT UPTAKE

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

NUTRIENT UPTAKE (SOILS)

Simulation Model for Nutrient Uptake from Soil by a Growing Plant Root System,
W77-12119 1023 2G

NUTRIENTS

Nitrogen Excretion by Nitrogen Fixing Blue-Green Algae: III. Utilization of the Excreted Nitrogen by Green Algae, (In German),
W77-00006 1001 5C

Removal vs Benefits: It Can Be Too Costly,
W77-00044 1001 5D

Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Surface Nutrients, Chlorophyll-A and Phaeopigment in Some Scottish Sea Lochs,
W77-00182 1001 5C

Soil Bulk Densities after Thirty Years under Different Management Regimes,
W77-00287 1001 2G

The Nutrients and Plants of Lake Joondalup, a Mildly Eutrophic Lake Experiencing Large Seasonal Changes in Volume,
W77-00442 1001 5C

Nutrient Status of the Sediments in Lake Mulwala, 1. Total Phosphorus,
W77-00450 1001 5C

Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Don't Waste Waterweeds,
W77-00592 1002 5D

Reverse Osmosis as an Advanced Treatment Process,
W77-00607 1002 5D

The Influence of Land Use on Stream Nutrient Levels,
W77-00725 1002 5C

Plant Production in Experimental Streams, A Cooperative Research Project with Weyerhaeuser Company,
W77-00735 1002 5C

Mineral Requirements in Fish--II. Magnesium Requirement of Carp,
W77-01239 1003 5C

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Submersed Macrophytes and Their Communities as Indicators of Water Contamination,
W77-01570 1004 5C

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Crop Production Function Determinations as Influenced by Irrigation and Nitrogen Fertilization Using a Continuous Variable Design,
W77-02281 1005 3F

Interactions of Micronutrients in Barley Grown on Zinc-Polluted Soils,
W77-02287 1005 2G

Nutrient Dilution-Antagonism Effects in Corn and Snap Beans in Relation to Rate and Source of Applied Potassium,
W77-02288 1005 3F

Nitrogen Losses from Soils of the North Carolina Coastal Plain,
W77-02294 1005 5B

Surveying America's Lakes.
W77-02375 1005 5C

Mathematical Modeling of Phytoplankton in Lake Ontario. Part 2. Simulations Using Lake 1 Model,
W77-02443 1005 5C

Nutritional Ecology of Nuisance Aquatic Plants,
W77-02451 1005 5C

Some Effects of the Aswan High Dam on Water and Fishes of Lake Borullus, A. R. E.,
W77-02512 1005 5C

Seasonal Variations of Temperature and Nutrients in the Surface Waters of Lakes Ontario and Erie,
W77-02515 1005 5C

Nutrient Distributions in a Spodosol During Corn Growth,
W77-02516 1005 5B

Seasonal Variations in Concentrations of Nitrate and Total Phosphorus, and Calculated Nutrient Loading for Six Lakes in Western New York,
W77-02588 1006 5C

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

Qualitative Composition of Irrigation Water and Suspended Load of the Ordzhonikidze Irrigation System, (In Russian),
W77-02890 1006 5B

Amino Acid and Fractional Composition of Protein of the Vegetative Mass of Corn at Different Levels of Mineral Nutrition and Water Supply, (In Russian),
W77-02918 1006 2I

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Effect of Method of Nitrogen Application on Corn (Zea Mays L.) Grown on Irrigated Sandy Soil,
W77-03071 1006 3F

Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Breakup Flooding and Nutrient Source of Colville River Delta During 1973,
W77-03388 1007 5B

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

Phytoplankton Response to Phosphorus and Silica Enrichments in Lake Michigan,
W77-03537 1007 5C

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

Great Lakes Nutrient Assessment,
W77-04163 1009 5C

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

Remarks on the Short Term Variability of the Parameters Relating to the Nutrient and Oxygen Balance During the Synoptic Investigation of Shallow Inlets During 1972, (In German),
W77-05159 1011 5A

Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

Relationships of Phytoplankton Biomass with Soluble Nutrients, Primary Production, and Chlorophyll a In Lake Erie, 1970,
W77-05235 1011 5C

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Role of Microbial Enriched Detritus in the Nutrition of Gammarus Minus (Amphipoda),
W77-05638 1012 5C

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Effects of Uneven Spreading of Fertilizer on Crop Yields,
W77-06091 1012 3F

Corn Yield and Nutrient Uptake as Affected by Water-Table Depth and Soil Submergence,
W77-06095 1012 3F

Final Report on Fertilizer Movement Through Soil Resulting from Rainfall,
W77-06096 1012 5B

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Nutrient Budgets for Lake Erie, 1970,
W77-06351 1013 5C

Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Blank and Salinity Corrections for Automated Nutrient Analysis of Estuarine and Sea Waters,
W77-06938 1014 5A

Single P/C Unit Removal of Nutrients from Combined Sewer Overflows,
W77-07031 1014 5D

Nutrient Transformations in Louisiana Salt Marsh Soils,
W77-07319 1015 5C

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

First Information About N, P Nutrients and the Production of Lake Trasimeno, (In Italian),
W77-07593 1015 5C

Runoff, Erosion, and Nutrient Movement from Interrill Areas,
W77-07766 1016 2J

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Sedimentation: Measurements in Experimental Enclosures,
W77-07990 1016 5C

Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Phosphorus Fertilization with Drip Irrigation,
W77-09443 1019 3F

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

Columbia River Nutrient Study-1972,
W77-09504 1019 5C

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

Controlling the Access of Nutrients from Point and Diffused Sources with Special Reference to the Pretoria/Witwatersrand/Vereeniging Region,
W77-10082 1020 5G

Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

Influence of Sediment Inflow in Phytoplankton Primary Productivity in Lake Tahoe (California-Nevada),
W77-10743 1021 5C

Seasonal Variation in the Nutrient Chemistry and Conservative Constituents in Coastal Alaskan Beaufort Sea Waters,
W77-10899 1022 2L

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Phytoplankton and Nutrients Near the Zion Nuclear Plant During Upwelling,
W77-11150 1022 5C

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

Growth Rate and Nutrient Uptake of Two Cotton Cultivars Grown Under Irrigation,
W77-11393 1022 3F

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Hydrologic Response and Nutrient Concentrations Following Spring Burns in an Oak-Hickory Forest,
W77-11613 1023 4C

Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

Using Wetlands for Wastewater Treatment.
W77-11700 1023 5D

Limnological Studies of the Ono Reservoir: Third Report, (In Japanese),
W77-11713 1023 5C

Precipitation Nutrients in the Open and Under Two Forests in Minnesota,
W77-11831 1023 2K

Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

Nitrogen Nutrition and Yield of Sugarcane as Affected by N-Serve,
W77-11953 1023 3F

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: I. Supply of Copper, Zinc, and Manganese,
W77-11954 1023 3C

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: II. Supply of Iron,
W77-11955 1023 3C

Accumulation of Nutrients in Soil Beneath Hog Manure Lagoons,
W77-11967 1023 5B

Simulation Model for Nutrient Uptake from Soil by a Growing Plant Root System,
W77-12119 1023 2G

Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

Nutrient Transport in Runoff from Sandy Soils,
W77-12184 1023 5B

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

Spoon-Feeding Nitrogen.
W77-12520 1024 3F

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

Soil Salinity and Plant Nutritional Status,
W77-12736 1024 3C

Distribution and Seasonal Variability of Micronutrients in Certain Salt Affected Soils of Northern Greece,
W77-12756 1024 5B

Detailed Return Flow Salinity and Nutrient Simulation Model,
W77-12757 1024 5G

The Impact of a Forest Fire on a Wilderness Lake in Northeastern Minnesota,
W77-12852 1024 5C

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

The Productivity, Fodder Value and Utilization of Nutrients by Alfalfa in Irrigation and Application of Macroelements and Molybdenum, (In Russian),
W77-12994 1024 3F

NUTRITION REQUIREMENTS

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

NUTRITIONAL DEFICIENCIES

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

NUUISANCE (LEGAL ASPECTS)

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

NYCTHEMERON

Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

OAHE DAM

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

OAHU (HAWAII)

Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Inventory of Benthic Organisms and Plankton at Mokapu, Oahu,
W77-07798 1016 2L

OAK CREEK (NB)

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

OAK TREES

The Heat Balance in the Forest-Steppe Mesophilic Deciduous High Oak Forest 'Les Na Vorskle' Under Abnormal Weather Conditions, (In Russian),
W77-00964 1002 2I

The Influence of Soil Moisture After Planting on the Growth and Differentiation of the Pedunculate Oak (Quercus Pedunculata Ehrh. Var. Tardiflora Czer, (In Bulgarian),
W77-01498 1003 2I

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

OATS

Response of Oat and Spinach to Sewage Sludge Application in Soil,
W77-08495 1017 5C

Response of Oats to Water Deficit. I. Physiological Characteristics,
W77-11100 1022 2I

Response of Oats to Water Deficit. II. Growth and Yield Characteristics,
W77-11101 1022 2I

OB RIVER

Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

OB' RIVER (USSR)

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

OBJECTIVE FUNCTIONS

Objective Function and Constraints in Water Resources Systems,
W77-08046 1016 6A

OBLIQUE IMPINGEMENT

Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

OBSERVATION

Ground-Water Levels in Observation Wells in Oklahoma, 1971-74,
W77-05275 1011 7C

OBSERVATION WELLS

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

Ground-Water Levels in New Mexico, 1975,
W77-03330 1007 7C

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

Water Levels in Artesian and Nonartesian Aquifers of Florida, 1973-74,
W77-04985 1010 4B

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Groundwater Levels in Nebraska, 1975,
W77-05274 1011 2F

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

Ground-Water Levels in Massachusetts, 1936-74,
W77-07485 1015 4B

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Ground-Water Data for Michigan, 1975,
W77-08753 1018 7C

Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

Groundwater Monitoring Wells,
W77-10517 1021 5B

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

OBSERVATION WELLS

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

Groundwater Levels in Nebraska, 1976,
W77-12393 1024 4B

OBSTRUCTION TO FLOW

Obstructing Bridges or Streams.
W77-00989 1002 6E

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

Obstructions in Streams,
W77-06079 1012 6E

Royce v. Heneage (Obstruction of a Natural Stream Does Not Constitute Obstruction of Lowlands Drainage).
W77-06565 1013 6E

State V Wilson (Seasonally Flowing Stream Not Constantly Flowing Stream).
W77-10486 1021 6E

OCCOQUAN WATERSHED (VA)

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

OCCUPATION

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

OCEAN BOTTOM

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

OCEAN CIRCULATION

Numerical Simulation of the Arctic Ocean Circulation,
W77-00129 1001 2L

Pelagic Tar,
W77-00969 1002 5B

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Gulf Stream Kinematics Inferred from a Satellite-Tracked Drifter,
W77-02140 1005 2L

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Mean Circulation in Shallow Seas,
W77-03753 1008 2L

Evidence of a Westward-Flowing 'Subarctic Countercurrent' in the North Pacific Ocean,
W77-03760 1008 2L

Measurements of a Small Near-Bottom Cyclonic Circulation Near the Gulf Stream Axis,
W77-03842 1008 2L

A Note on Volumetric Considerations of Upwelling in the Benguela Current,
W77-06504 1013 2L

On the Characteristics and Circulation of the Southwestern Atlantic Ocean,
W77-06524 1013 2L

Circulation and Surge Modeling in Pamlico Sound, N.C.,
W77-07320 1015 2L

High Sensitivity Flowmeter,
W77-08898 1018 7B

Ocean Surface Drift Velocities,
W77-11810 1023 2L

Tracking a Gulf Stream Ring with a Free Drifting Surface Buoy,
W77-12300 1024 2L

Adaptation of a General Circulation Model to Ocean Dynamics,
W77-12563 1024 2L

OCEAN CURRENT

Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

OCEAN CURRENTS

On the Flow Through Barrow Canyon,
W77-00134 1001 2L

The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

Formulas Used to Analyze Wind-Driven Currents as First-Order Autoregressive Processes,
W77-02670 1006 2L

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Nearshore Currents Off Long Island,
W77-03754 1008 2L

Evidence of a Westward-Flowing 'Subarctic Countercurrent' in the North Pacific Ocean,
W77-03760 1008 2L

Measurements of a Small Near-Bottom Cyclonic Circulation Near the Gulf Stream Axis,
W77-03842 1008 2L

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Thermal Sensor for Measurement of Ocean Current Direction,
W77-08257 1017 2L

Current-Meter Recordings of Low-Speed Turbidity Currents,
W77-08847 1018 2L

High Sensitivity Flowmeter,
W77-08898 1018 7B

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

Evidence for Baroclinic Instability of the Norwegian Current,
W77-10107 1021 2L

Somali Current: Recent Measurements During the Southwest Monsoon,
W77-10128 1021 2L

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

Tracking a Gulf Stream Ring with a Free Drifting Surface Buoy,
W77-12300 1024 2L

A Comparison of Summer Current Measurements in the Drake Passage,
W77-12301 1024 2L

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

OCEAN DISPOSAL
Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

Go Ahead for Drainage and Outfall,
W77-07889 1016 5E

Options for Sludge--To Land, Sea or Fire,
W77-09918 1020 5E

OCEAN DISPOSAL PERMIT PROGRAM (EPA)
Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

OCEAN DUMPING
Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

History of Ocean Dumping in the Gulf of Mexico,
W77-02668 1006 5E

Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

Waste Disposal,
W77-04847 1010 5E

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Ocean Dumping--Part 2.
W77-05037 1010 5E

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

Ocean Dumping,
W77-11469 1022 5G

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

OCEAN DUMPING ACT
Ocean Dumping,
W77-11469 1022 5G

OCEAN ENGINEERING
Concrete Properties at Ocean Depths,
W77-11779 1023 8F

OCEAN ISLAND
Unsteady Groundwater Flow Beneath Strip Oceanic Islands,
W77-01143 1003 2F

OCEAN MINING
International Commodity Cartels and the Threat of New Entry: Implications of Ocean Mineral Resources,
W77-04172 1009 6E

OCEAN OUTFALLS
The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

Waste Management for the Coastal Zone: Concepts for the Assessment of Ocean Outfalls,
W77-07747 1016 5E

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

OCEAN POLICY
The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

OCEAN POLICY PROJECT (JOHNS HOPKINS UNIVERSITY)
Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

OCEAN POLLUTION
Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

OCEAN RESOURCES
Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

OCEAN TEMPERATURE
Global Mass and Energy Requirements for Glacial Oscillations and Their Implications for Mean Ocean Temperature Oscillations,
W77-10327 1021 2B

OCEAN THERMAL POWERPLANTS
Simulation Factors Involved in Ocean Thermal Power Plants,
W77-10034 1020 5B

OCEAN WASTE DISPOSAL
Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

OCEAN WAVES
On Forced, Long Continental Shelf Waves on an f-Plane,
W77-00131 1001 2L

The Transmission and Decay of Barotropic Topographic Rossby Waves Incident on a Continental Shelf,
W77-00132 1001 2L

Continental Shelf Waves in the Florida Straits,
W77-00133 1001 2L

Geographical Variability of the Internal Wave Field: A Search for Sources and Sinks,
W77-00135 1001 2L

Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

Wave Generator,
W77-00691 1002 8C

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

Coastal Engineering Data Network,
W77-00898 1002 2L

Waves in Coastal Waters Off Mangalore; Pt. I: Distribution of Wave Characteristics,
W77-01330 1003 2L

On the Possible Detection of Tsunamis by a Monitoring of the Ionosphere,
W77-01918 1004 2L

Wave Patterns Across the North Atlantic on September 28, 1974, from Airborne Radar Imagery,
W77-01921 1004 2L

Radar Imaging of Ocean Surface Patterns,
W77-01932 1004 2L

The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

OCEAN WAVES

High-Wave Conditions Observed Over the North Atlantic in September 1961,
W77-03090 1007 2L

Numerical Models for the Prediction of Wave Set-Up and Nearshore Circulation,
W77-03769 1008 2L

Coastal-Trapped Waves in a Continuously Stratified Ocean,
W77-04267 1009 2L

Surf-Turbine Generating System,
W77-04954 1010 8C

Nearshore Wave Direction Gage,
W77-06516 1013 7B

A Study to Forecast the Waves at Digha,
W77-06648 1014 2L

Continental Shelf Waves and Alongshore Variations in Bottom Topography and Coastline,
W77-06891 1014 2L

Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

Breaking Waves,
W77-10317 1021 8B

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

Note Concerning the Correlations in Space and Time of Surface Wave Amplitudes,
W77-10886 1022 2L

The Effects of a Variable Coriolis Parameter, Coastline Curvature and Variable Bottom Topography on Continental Shelf Waves,
W77-12299 1024 2L

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

The Use of Aerial Photography in the Study of Wave Characteristics in the Coastal Zone,
W77-12573 1024 7B

OCEAN WEATHER STATION N (PACIFIC OCEAN)

Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

OCEAN WEATHER STATIONS

Spectral Analysis of the Long-Term Oceanographic Time Series at Ocean Weather Station 'P',
W77-03843 1008 2L

OCEANIC FINESTRUCTURE

Acoustic Oceanography,
W77-10318 1021 2L

OCEANIC RAINFALL ATLAS

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

OCEANIC SEDIMENTATION

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

OCEANOGRAPHIC BASELINE STUDY

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

OCEANOGRAPHIC DATA

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

OCEANOGRAPHIC WATER SAMPLERS

Oceanographic Water Sampler,
W77-09799 1020 7B

OCEANOGRAPHY

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Winter Conditions in te New York Bight, 1973-1974.
W77-03380 1007 5C

An Historical Sketch of Physical Oceanography in Canada,
W77-03759 1008 2L

Abyssal Hydrography, Nephelometry, Currents, and Benthic Boundary Layer Structure in the Vema Channel,
W77-04004 1008 2L

Symmetric Finite-Amplitude Rotational Water Waves,
W77-04266 1009 2L

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

An Analytical Sea Current Model for Coastal Regions with Application to the New York Bight,
W77-07744 1016 2L

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

Wave Height Measuring Device,
W77-08897 1018 7B

High Sensitivity Flowmeter,
W77-08898 1018 7B

A Preliminary Oceanographic Survey of the Damariscotta River Estuary, Lincoln County, Maine,
W77-11657 1023 5B

Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

OCEANS

Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

Management of the Ocean's Living Resources: An Essay Review,
W77-00179 1001 6E

Project Fog Drops V - Task I: A Numerical Model of Advection Fog, Task II: Recommendations for Simplified Individual Zero-Gravity Cloud Physics Experiments,
W77-00357 1001 2B

Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

Geographical and Seasonal Variability of Marine Plankton.
W77-00393 1001 5C

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

On a Mid-Ocean Thermocline Regime,
W77-00656 1002 2L

Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Pelagic Tar,
W77-00969 1002 5B

Protection of the Marine Environment from Pollution,
W77-00973 1002 5G

It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

Sludge,
W77-01085 1003 5G

Ocean Thermal Gradient Power Plant,
W77-01206 1003 8C

Oceanographic Apparatus,
W77-01214 1003 2L

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

Vertical Profiles of Temperature and Fine-Scale Velocity Structure in the Thermocline,
W77-01615 1004 2L

Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Eddy Energy in the Oceans,
W77-01920 1004 2L

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Gulf Stream Kinematics Inferred from a Satellite-Tracked Drifter,
W77-02140 1005 2L

Ocean Dumping Phase-Out in EPA Region II,
W77-02393 1005 5E

International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

A Technique for Estimating Tropical Open-Ocean Rainfall from Satellite Observations,
W77-02484 1005 2B

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

The International Law of Scientific Research in the Oceans,
W77-03687 1008 6E

A Numerical Investigation of the Circulation in the Norwegian Sea,
W77-03750 1008 2L

Spectrum of Small-Scale Oceanic Temperature Gradients,
W77-03979 1008 2L

International Commodity Cartels and the Threat of New Entry: Implications of Ocean Mineral Resources,
W77-04172 1009 6E

Antisymmetric Stress for Sea Ice,
W77-04240 1009 2C

Oceanographic Commission,
W77-04359 1009 6E

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

Ocean Dumping--Part 2.
W77-05037 1010 5E

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

The New Equity in the Law of the Sea,
W77-05219 1011 6E

Status of Ocean Dumping Research in New York Bight,
W77-05443 1011 5B

Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

Murky Waters: Private Claims to Deep Ocean Seabed Minerals,
W77-06043 1012 6E

Achievements in Marine Conservation, 1. Marine Parks,
W77-06049 1012 5G

On the Characteristics and Circulation of the Southwestern Atlantic Ocean,
W77-06524 1013 2L

Monitoring the Marine Environment Through Sedimentation,
W77-06651 1014 2L

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

In Situ Acoustic Measurements of Microbubbles at Sea,
W77-06916 1014 2L

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

Method and Apparatus for Obtaining Electrical Power from Sea Water,
W77-08032 1016 8C

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Say Goodbye to Ocean Dumping,
W77-08969 1018 5G

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

A Model of the Annual Cycle of Temperature in a Frontal Region of the Celtic Sea,
W77-09708 1020 2L

A Satellite Technique for Quantitatively Mapping Rainfall Rates Over the Oceans,
W77-10113 1021 2B

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Acoustic Oceanography,
W77-10318 1021 2L

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

Global Mass and Energy Requirements for Glacial Oscillations and Their Implications for Mean Ocean Temperature Oscillations,
W77-10327 1021 2B

Initial Dilution with Deepwater Diffusers,
W77-10974 1022 5B

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

Ocean Dumping,
W77-11469 1022 5G

Supertankers and the Law of the Sea,
W77-11472 1022 6E

International Law, World Order and Human Progress,
W77-11474 1022 6E

Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

Incomplete Extraction of Rapidly Settling Particles from Water Samplers,
W77-11801 1023 2L

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

Ocean Surface Drift Velocities,
W77-11810 1023 2L

OCEANS

A Note on the Lateral Mixing of Water Masses,
W77-12303 1024 2L

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

OCHEYDEAN RIVER (IA)

Flood Plain Information: Little Sioux River, Ocheyedan River and Muddy Creek, City of Spencer and Vicinity, Clay County, Iowa,
W77-06588 1013 4A

OCTOCORAL

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

OCTOPODA

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

OCTYLIC STABILIZERS

Hygienic Standardization of Octylic Stabilizers of Polyvinylchloride in Water Bodies, (In Russian),
W77-02264 1005 5G

OCULAR OXYGEN CONCENTRATION

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

ODER CONTROL

Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

ODESSA REGION (USSR)

Phytotoxic Properties of Anaerobic Bacteria of Irrigated Soils, (In Russian),
W77-01590 1004 5C

ODEX ECCENTRIC DRILL BIT

New Technology: New Eccentric Drill Bit.
W77-12677 1024 8G

ODOR

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

A Preliminary Study of the Taste and Odor Problems in Grand Lake, Ohio and the Wabash Rivers, Indiana,
W77-03384 1007 5C

Treatment of Troublesome Odors from the Fermentation of Antibiotics (Abbattimento Di Odori Molesti Provenienti Dalla Fermentazione Di Antibiotici),
W77-03603 1008 5D

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

A Refresher on Sodium Hypochlorite.
W77-06142 1013 5D

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

Aerators Control Lift Station Odor and Corrosion,
W77-08567 1017 5G

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Hydrogen Peroxide Controls Odor, Corrosion in Collection Systems,
W77-11487 1022 5D

Disinfection and Odor Control.
W77-11497 1022 5D

Granular Activated Carbon in Water Treatment,
W77-11720 1023 5D

Tastes and Odors in Water Supplies-A Review,
W77-12794 1024 5F

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

ODOR-PRODUCING ALGAE

Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

ODOR TREATMENT

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

ODORS

Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

OEDOGONIO-EPITHEMIETUM LITORALAE

The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

OEDOGONIUM

Absorption and Accumulation of 32P by Oedogonium and Some Aquatic Macrophytes,
W77-11569 1023 5A

OEGOPSIDA

The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

OENOTHERA-BIENNIS

Cultivation and Breeding of Oenothera-Plant: IV. Effect of Soil Moisture on Growth and Components in Seed of O. Biennis, (In Japanese),
W77-03148 1007 2I

OFFSHORE DRILLING

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

OFFSHORE DRILLING (OIL)

An Oilspill Risk Analysis for the Mid-Atlantic Outer Continental Shelf Lease Area,
W77-04232 1009 5B

OFFSHORE EXPLOITATION

People and the Sea: Future Impacts and Opportunities,
W77-04474 1009 6G

OFFSHORE EXPLORATION

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

OFFSHORE NUCLEAR POWERPLANTS

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

OFFSHORE OIL

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

OFFSHORE OIL FIELDS

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

OFFSHORE OIL PRODUCTION

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

OFFSHORE PERMAFROST

A Conceptual Model of Offshore Permafrost,
W77-00094 1001 2C

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

OFFSHORE PLATFORMS

Offshore Industrial-Port Islands,
W77-00176 1001 5G

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

Prevention--The Best Method of Controlling Pollution,
W77-00207 1001 5G

The Selling of the Shelf,
W77-00979 1002 5G

Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Winter Conditions in te New York Bight, 1973-1974.
W77-03380 1007 5C

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Method for Constructing an Ice Platform,
W77-06451 1013 3E

Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

OFFSHORE STRUCTURES

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Concrete Properties at Ocean Depths,
W77-11779 1023 8F

OFFSHORE TECHNOLOGY

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

OGALLALA AQUIFER (TEXAS)

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

OGALLALA FORMATION (COLO)

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

OGALLALA FORMATION (GREAT PLAINS)

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

OHIO

The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

Circle Investment Co V City of Toledo (Effect of Changing Canal to Limited Access Highway on Abutting Landowners--No Access Required).
W77-01044 1002 6E

Steinbeck V Philip Stenger Sons, Inc (Alteration of Higher Topography by Land Developer Causing Artificial Drainage onto Lower Property--The Taking Issue).
W77-01049 1002 2E

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

Soil Potassium Relationships as Indicated by Solution Equilibrations and Plant Uptake,
W77-03395 1007 2G

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

Flood Plain Information: Hocking River, Athens, Ohio.
W77-04211 1009 4A

Stage, Discharge and Quality Changes in a Water Table Aquifer Related to Urbanization,
W77-05335 1011 4C

A Study of Runoff from Small Rural Watersheds in Response to Completed and Proposed Land Use Changes,
W77-05728 1012 5B

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Agricultural Disposal of Aerobic Wastewater Sludges in an Urban County,
W77-07057 1014 5D

Conditioning and Land Application of Aerobically Digested Sludge,
W77-07058 1014 5D

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

Water Resources Data for Ohio, Water Year 1975--Volume 1. Ohio River Basin.
W77-10000 1020 7C

Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

Effects of Soil, Cover Crop, and Nutrient Source on Movement of Soil, Water, and Nitrogen Under Simulated Rain-Slope Conditions,
W77-12309 1024 2B

Digital Monitors for Ohio's Wells.
W77-12675 1024 4B

OHIO RIVER
Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
W77-00428 1001 2E

Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

Water Pollution Control Act of 1972, Regional Impacts, Ohio River Basin, (Volumes 1 and 2).
W77-01981 1004 5G

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

Effects of Power-Plant Operation on the Biota of a Thermal Discharge Channel,
W77-05580 1011 5C

Seasonal Distribution and Abundance of Ohio River Fishes at the J. M. Stuart Electric Generating Station,
W77-05584 1011 5C

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Multistation, Multiyear Synthesis of Hydrologic Time Series by Disaggregation,
W77-06008 1012 2A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

OHIO RIVER BASIN
Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

Water Pollution Control Act of 1972, Regional Impacts, Ohio River Basin, (Volumes 1 and 2).
W77-01981 1004 5G

OHIO RIVER (IN)
Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

OIL
Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

Study of the Solubility of Oil in Water,
W77-02765 1006 5A

The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

Olympic Alliance Oil Spillage,
W77-03195 1007 5C

Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Oceanographic Commission,
W77-04359 1009 6E

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Bacterial Degradation of Motor Oil,
W77-04577 1009 5B

Sampling Device for Monitoring Biodegradation of Oil and Other Pollutants in Aquatic Environments,
W77-04801 1010 5B

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

The Rate of Microbial Degradation of Oil in a Beach Gravel Column,
W77-07138 1015 5B

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Amend the Merchant Marine Act of 1920 (Hearings on S 2422 to Include the Virgin Islands Within the Scope of the Act With Respect to Transportation of Oil and Oil Products).
W77-08982 1018 6E

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

Offshore Mineral Resource Exploitation: The State and Federal Response,
W77-10471 1021 6E

Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

A Preliminary Study of the Toxic Effects of Irradiated Vs. Non-Irradiated Water Soluble Fractions of No. 2 Fuel Oil,
W77-12869 1024 5C

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

OIL ANALYSIS

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

OIL AND GREASE

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

OIL BARRIERS

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

OIL BIODEGRADATION

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

OIL BOOMS

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

OIL CHARACTERISTICS

Selection Criteria and Laboratory Evaluation of Oil Spill Sorbents.
W77-02769 1006 5G

OIL DETECTION

Petroleum Oil Detection Buoy System,
W77-07750 1016 5A

OIL DEVELOPMENT

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

OIL DISPERSANTS

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

OIL EXPLORATION

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

OIL-FIELD BRINES

Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

OIL FIELDS

Decision to Lease Outer Continental Shelf Lands,
W77-00981 1002 6E

Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Petroleum Legislation in the North Sea Countries,
W77-09542 1019 6E

Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

OIL-FLUSHED TOILETS

Oil-Flushed Toilets Gain,
W77-08583 1017 3D

OIL-ICE INTERACTION

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

OIL-ICE INTERFACES

Ice Conditions and the Proposed Containment and Removal of Spilled Oil on St. Clair and Detroit Rivers,
W77-01802 1004 5G

OIL INDUSTRY

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

A Systems Approach to the Economics of Waste Handling,
W77-00745 1002 5D

Study on Treatment of Tanker Discharged Oily Water with Improved Type Slop Tank (Kairyogata suropu tanku ni yoru tanka haisui shori no kankyu),
W77-00750 1002 5G

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

The Selling of the Shelf,
W77-00979 1002 5G

Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Syncrude Vows Environmental Responsibility,
W77-02600 1006 5D

Wastewater Requirements Multiply Solids Problems,
W77-02601 1006 5G

Impact of Water Conservation in the Design of Modern Oil Refineries,
W77-02602 1006 5D

Handling Discharges from Waste Oil Processing,
W77-02604 1006 5D

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Nature of Potential Oil Industry Operations on the Atlantic Continental Shelf,
W77-04936 1010 6G

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

Electrolytic Purification of Industrial Effluents-for Removal of Heavy Metals, Oil, Etc.,
W77-05509 1011 5D

Determination of Phenols at Residual Levels by Ultraviolet Electronic Spectra (Determinarea fenolilor din apele reziduale cu ajutorul spectrelor electronice in ultraviolet),
W77-05510 1011 5A

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

Designing Parallel-Plates Separators,
W77-06222 1013 5D

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk,
W77-07251 1015 5G

Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1975,
W77-07334 1015 5G

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Deepwater Port Act of 1974: Some International and Environmental Implications,
W77-10456 1021 6E

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

OIL LUMPS

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

OIL-OXIDIZING BACTERIA

Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

Microorganisms Oxidizing Petroleum and Petroleum Products in the Presence of Higher Aquatic Plants, (In Russian),
W77-10250 1021 5C

OIL-OXIDIZING MICROORGANISMS

Lipid Transformation in Seawater by Oil-Oxidizing Microorganisms, (In Russian),
W77-01030 1002 5A

OIL PIPELINES

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

OIL POLLUTANTS

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

OIL POLLUTION

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

Effects of Oil on the Reproduction of the Amphipod Gammarus Oceanicus,
W77-00188 1001 5C

Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

Spill Prevention--Phase II,
W77-00201 1001 5G

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

Design of a Refinery Dock to Prevent Oil Spills,
W77-00205 1001 5G

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

Prevention--The Best Method of Controlling Pollution,
W77-00207 1001 5G

Prevention is Best,
W77-00208 1001 5G

Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

Oil Spill Prevention Practices in Pipelines and Terminals,
W77-00210 1001 5G

Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

The Development of an Experimental Airborne Laser Oil Spill Remote Sensing System,
W77-00213 1001 5A

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

An Optimal Prevention and Detection Model for Pollution Patrol,
W77-00217 1001 5A

Oil Spill-Source Correlation by Gas Chromatography: An Experimental Evaluation of System Performance,
W77-00218 1001 5A

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

A Multiparameter Oil Pollution Source Identification System,
W77-00222 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Development of the 'Next Generation' Chemical Dispersants,
W77-00227 1001 5G

Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Development and Preliminary Design of a Sorbent Oil Recovery System,
W77-00232 1001 5G

Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Distribution of Heavy Hydrocarbons in some Atlantic Ocean Waters,
W77-00252 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Case Studies of the USN Supervisor of Salvage, Salvage Related Oil Pollution Incidents,
W77-00260 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Quantitative Evaluation of Mechanical Oil Spill Cleanup Devices,
W77-00263 1001 5G

Oil/Sorbent Harvesting Systems for use on Vessels of Opportunity,
W77-00264 1001 5G

Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

Role of the Mussel in Purifying Sea Water of Petroleum Products (In Experiment), (In Russian),
W77-00418 1001 5G

Process for Removing Dispersed Matter from Water,
W77-00684 1002 5G

Removal of Contaminants from Water,
W77-00687 1002 5G

Study on Treatment of Tanker Discharged Oily Water with Improved Type Slop Tank (Kairyogata suropu tanku ni yoru tanka haisui shori no kankyu),
W77-00750 1002 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

The Selling of the Shelf,
W77-00979 1002 5G

A Method for Determining the Dispersive Capacity of Preparations used for Removing Oils from Water Surface, (In Russian),
W77-01028 1002 5B

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Oil-in-Water Monitor,
W77-01201 1003 5A

Apparatus for Spilling Retrieval,
W77-01202 1003 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Oil Collection Barge,
W77-01204 1003 5G

Apparatus for Collecting Oil Slick from a Body of Water,
W77-01211 1003 5G

Oil Fence,
W77-01230 1003 5G

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Oil-Spill Dispersant for Marine Pollution (Lekoliedispergeermiddel vir seebesoedeling).
W77-01387 1003 5G

Evaluation of the Self-Purifying Ability of Waters of the Lower Don, (In Russian),
W77-01569 1004 5G

Significance of Suspended Load and Bottom Deposits in Self-Purification of the Selenga River from Petroleum Products, (In Russian),
W77-01606 1004 5G

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

Containment Boom,
W77-01721 1004 5G

Water Pollution Monitor,
W77-01722 1004 5A

Method and Apparatus for Controlling the Discharge of Contaminants from Ships,
W77-01732 1004 5G

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

Program for Preventing and Eliminating Oil Pollution of the Buffalo River,
W77-01782 1004 5A

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Case of Subsurface Water Pollution by Petroleum Product Wastes, (In Russian),
W77-02273 1005 5B

Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

The Metula Oil Spill,
W77-02679 1006 5C

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
W77-02897 1006 5G

The Study of the Effect of Sea Roughness on the Remote Sensing of Oil Pollution by the Active Method, (In Russian),
W77-02898 1006 5A

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Litter and Oil on the Shores of Utsira, Rogaland County, During Autumn 1974, (In Danish),
W77-03125 1007 5B

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Toxicity of Crude Oils and a Dispersant to the Stony Coral Madracis Mirabilis,
W77-03196 1007 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Effects of Oil on the Amphipod Gammarus Oceanicus,
W77-03777 1008 5C

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

A Zero-Relative-Velocity Belt Skimmer,
W77-03899 1008 5C

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Development of Fast Current Oil Response System,
W77-03904 1008 5G

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Fast Current Oil Response System - Stage I, SVROS Development,
W77-03920 1008 5G

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-04025 1008 5B

Uptake and Retention of Kuwait Crude Oil and its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-04026 1008 5C

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

The Effect of Dissolved Petroleum Products on Some of the Aspects of Carbohydrate Metabolism in Fishes and Invertebrates,
W77-04030 1008 5C

The Conditions for Biodegradation of Petroleum Hydrocarbons at Sea,
W77-04042 1008 5B

Long-Term Chemical Effects of Petroleum in South Louisiana Wetlands - 1. Organic Carbon in Sediments and Waters,
W77-04043 1008 5C

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Deleterious Effects of Corexit 9527 on Fertilization and Development,
W77-04050 1008 5C

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

Molecular Test for Oil Pollution in Surface Sediments,
W77-04058 1008 5B

Some Effects of Petroleum on Estuarine and Marine Micro-Organisms,
W77-04063 1008 5C

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

Documentation of Four Ocean-Related Computer Modules,
W77-04838 1010 5B

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

Oil Spill and Oil Pollution Reports August 1975 - October 1975,
W77-05023 1010 5B

Oil Spill and Oil Pollution Reports May 1975 - July 1975,
W77-05024 1010 5B

Oil Spill and Oil Pollution Reports November 1975 - January 1976,
W77-05025 1010 5B

Oil Spill and Oil Pollution Reports February 1976 - April 1976,
W77-05026 1010 5B

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

Hydrocarbons in the Ocean,
W77-05139 1011 5B

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Marine Pollution Research Titles.
W77-05383 1011 5A

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Oil Spill Apparatus,
W77-05667 1012 5G

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Rigging System for an Endless Oil Mop,
W77-06459 1013 5G

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

Enforcement of Oil Pollution Legislation,
W77-06543 1013 5G

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-06911 1014 5B

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Responses to Crude Oil Contamination by Cricotopus (Cricotopus) bicinctus and C. (C.) mackenziensis (Diptera: Chironomidae) in the Fort Simpson Area, Northwest Territories,
W77-07113 1015 5C

Role of Mussels Mytilus edulis in Removal of Petroleum Products from Seawater (Under Experimental Conditions),
W77-07116 1015 5C

Effects of Benzene (A Toxic Component of Petroleum) on Spawning Pacific Herring, Clupea harengus pallasi,
W77-07137 1015 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

Rules and Regulations for Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Domestic Trade,
W77-07254 1015 5G

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Uptake and Retention of Kuwait Crude Oil and Its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-07506 1015 5C

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Self-Purification in the Coastal Waters of the Black Sea, (In Russian),
W77-07592 1015 5C

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Degradation of Petroleum by an Alga, Prototheca Zopfii,
W77-07737 1016 5C

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

Verification by Remote Sensing of an Oil Slick Movement Prediction Model,
W77-07745 1016 5B

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Petroleum Oil Detection Buoy System,
W77-07750 1016 5A

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

A Method for Determining Oil in Water,
W77-07756 1016 5A

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Determination of the Leeway of Oil Slicks,
W77-07800 1016 5B

The ARGO MERCHANT Oil Spill. A Preliminary Scientific Report,
W77-07807 1016 5C

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Oil Separator Device,
W77-08015 1016 5G

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Oil Spills and Spills of Hazardous Substances.
W77-08385 1017 5G

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Barrier for Water Carried Pollutants,
W77-08878 1018 5G

Detergent Composition for Dispersing Oil Spills,
W77-08884 1018 5G

Fending Device for Oil Containment Boom,
W77-08892 1018 5G

Identification of Weathered Oil Films Found in the Marine Environment,
W77-08901 1018 5A

Flocculant Use on Tankers,
W77-08906 1018 5G

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

Users Manual - Oil and Hazardous Materials Spill Information Retrieval System.
W77-09229 1019 5G

Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

Environmental Impacts from Offshore Exploration and Production of Oil and Gas.
W77-09460 1019 6G

Evaluation of Petroleum-Degrading Potential of Bacteria from Water and Sediment,
W77-09472 1019 5B

What Are We Doing About Oil Spill,
W77-09553 1019 5G

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

Continuous-Flow Apparatus for Use in Petroleum Bioassay,
W77-09681 1020 5A

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

Method for Detecting Oil in Water,
W77-09813 1020 5A

Oil Spill Identification System.
W77-10024 1020 5A

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

Uptake and Release of Petroleum by Intertidal Sediments at Port Valdez, Alaska,
W77-10123 1021 5B

Transfer to Fish of Petroleum Paraffins and Organic Sulfur Compounds,
W77-10144 1021 5C

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

Federal and Florida Law Concerning Oil Pollution,
W77-10467 1021 6E

Ward V Coleman (Constitutionality, and the Criminal or Civil Nature of Fines Under the Federal Water Pollution Control Act).
W77-10479 1021 6E

Redesign, Fabrication and Test of a 1000-GPM High Seas Oil Recovery System and Design Only of a 500-GPM High Seas Oil Recovery System,
W77-10879 1022 5G

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Acoustic Method for Detecting Leaks from Submerged Pipelines,
W77-10995 1022 5G

Oil Absorbent Material and Method of Oil Removal,
W77-11002 1022 5G

Process for Emergency Small Spill Control,
W77-11005 1022 5G

Apparatus for Removal of Oil Films from Water,
W77-11007 1022 5G

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-11018 1022 5G

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Environmental Considerations of the Oil and Gas Production Industry in the Coastal Zone,
W77-11032 1022 5G

Field Studies on Marine Life Inhabiting Areas of Chronic Low Level Exposure to Petroleum,
W77-11033 1022 5C

Oil in Southern California Marshes,
W77-11034 1022 5C

State Protection from Oil Spills: Askew v American Waterways Operators, Inc.,
W77-11153 1022 6E

The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

Pollution Prevention--Vessel and Oil Transfer Facilities.
W77-11461 1022 5G

National and International Efforts to Prevent Traumatic Vessel Source Oil Pollution,
W77-11467 1022 5G

Supertankers and the Law of the Sea,
W77-11472 1022 6E

VLCC 'METULA' Oil Spill,
W77-11889 1023 5G

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

Social Cost of Oil Pollution,
W77-11892 1023 5G

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

A Shipboard Oil-in-Water Content Monitor Based on Oil Fluorescence,
W77-11905 1023 5A

Separation of Oil in Bilge Water by Semipermeable Membrane,
W77-11909 1023 5G

Shipboard Oil-in-Water Monitor,
W77-11910 1023 5A

Oil/Water Separator Evaluation,
W77-11912 1023 5G

Oil/Water Separation with Noncellulosic Ultrafiltration Systems,
W77-11913 1023 5G

Process for Removing Oil from Oily Waste Water Streams,
W77-11922 1023 5D

Lightweight End Connectors for Pollution Containment Boom,
W77-11925 1023 5G

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

Development of a High Seas Oil Recovery System, Phase II Prototype Design, Fabrication, and Testing,
W77-12146 1023 5G

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

Oil Pick Up Device,
W77-12691 1024 5G

Oil-Water Separation Apparatus,
W77-12702 1024 5G

Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

OIL POLLUTION ACT

Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

OIL POLLUTION ACT OF 1924

Federal and Florida Law Concerning Oil Pollution,
W77-10467 1021 6E

OIL POLLUTION EFFECTS

Macoma Balthica: An Indicator of Oil Pollution,
W77-03185 1007 5A

OIL RECOVERY

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Development of a High Seas Oil Recovery System, Phase II Prototype Design, Fabrication, and Testing,
W77-12146 1023 5G

OIL RECOVERY DEVICES

Tests of Oil Recovery Devices in Broken Ice Fields. Phase I,
W77-08915 1018 5G

OIL RECOVERY SYSTEMS

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

Redesign, Fabrication and Test of a 1000-GPM High Seas Oil Recovery System and Design Only of a 500-GPM High Seas Oil Recovery System,
W77-10879 1022 5G

OIL REFINERIES

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

OIL REFINING INDUSTRY

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

OIL RESERVOIRS
Offshore Mineral Resource Exploitation: The State and Federal Response,
W77-10471 1021 6E

OIL SHALE
The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

OIL SHALE DEVELOPMENT
An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

OIL SHALE MINING
Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

OIL SHALE PRODUCTION
Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

OIL SHALES
Views from the Energy Industries.
W77-00548 1002 6D

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Ground Water Problems with Oil Shale Mining in the Piceance Basin,
W77-06045 1012 4B

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

OIL SKIMMERS
Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

OIL SLICKS
Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Method of Dispersing Oil in Water,
W77-08260 1017 5G

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

OIL SPILL
Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

OIL SPILL CONCENTRATION
NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

OIL-SPILL EMULSIFIER
Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

OIL SPILL PREVENTION
Spill Prevention--Phase II,
W77-00201 1001 5G

OIL SPILL REMOVAL EQUIPMENT
Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

OIL SPILLS
A Four-Year Analysis of Vegetation Following an Oil Spill in a Freshwater Marsh,
W77-00147 1001 5C

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Spill Prevention--Phase II,
W77-00201 1001 5G

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

Design of a Refinery Dock to Prevent Oil Spills,
W77-00205 1001 5G

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

Prevention--The Best Method of Controlling Pollution,
W77-00207 1001 5G

Prevention is Best,
W77-00208 1001 5G

Oil Spill Prevention Practices in Pipelines and Terminals,
W77-00210 1001 5G

Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

The Development of an Experimental Airborne Laser Oil Spill Remote Sensing System,
W77-00213 1001 5A

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

An Optimal Prevention and Detection Model for Pollution Patrol,
W77-00217 1001 5A

Oil Spill-Source Correlation by Gas Chromatography: An Experimental Evaluation of System Performance,
W77-00218 1001 5A

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

A Multiparameter Oil Pollution Source Identification System,
W77-00222 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Development of the 'Next Generation' Chemical Dispersants,
W77-00227 1001 5G

Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Development and Preliminary Design of a Sorbent Oil Recovery System,
W77-00232 1001 5G

Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Distribution of Heavy Hydrocarbons in some Atlantic Ocean Waters,
W77-00252 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Case Studies of the USN Supervisor of Salvage, Salvage Related Oil Pollution Incidents,
W77-00260 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Quantitative Evaluation of Mechanical Oil Spill Cleanup Devices,
W77-00263 1001 5G

Oil/Sorbent Harvesting Systems for use on Vessels of Opportunity,
W77-00264 1001 5G

Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

Apparatus for Spilling Retrieval,
W77-01202 1003 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Oil Collection Barge,
W77-01204 1003 5G

Apparatus for Collecting Oil Slick from a Body of Water,
W77-01211 1003 5G

Oil-Spill Dispersant for Marine Pollution (Lekoliedispergeermiddel vir seebesoedeling).
W77-01387 1003 5G

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Containment Boom,
W77-01721 1004 5G

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

Ice Conditions and the Proposed Containment and Removal of Spilled Oil on St. Clair and Detroit Rivers,
W77-01802 1004 5G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Economic Effects of Enforcement Variables on Commercial Oil Pollution Control Strategy,
W77-02418 1005 5G

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

The Metula Oil Spill,
W77-02679 1006 5C

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

Controlled Combustion Tests Carried Out Near Rimouski,
W77-02759 1006 5E

Behaviour of Oil Spilled in Ice-Covered Rivers,
W77-02760 1006 5B

Selection Criteria and Laboratory Evaluation of Oil Spill Sorbents.
W77-02769 1006 5G

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Olympic Alliance Oil Spillage,
W77-03195 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

A Zero-Relative-Velocity Belt Skimmer,
W77-03899 1008 5C

Development of Fast Current Oil Response System,
W77-03904 1008 5G

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Fast Current Oil Response System - Stage I, SVROS Development,
W77-03920 1008 5G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

An Oilspill Risk Analysis for the Mid-Atlantic Outer Continental Shelf Lease Area,
W77-04232 1009 5B

Oil Pollution Prevention.
W77-04367 1009 5G

Coastal Environmental Impact Assessment: Lessons from Oil Spills,
W77-04472 1009 6G

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

Bacterial Degradation of Motor Oil,
W77-04577 1009 5B

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

Documentation of Four Ocean-Related Computer Modules,
W77-04838 1010 5B

Petroleum Identification by Laser Raman Spectroscopy,
W77-04843 1010 5A

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Oil Spill and Oil Pollution Reports August 1975 - October 1975,
W77-05023 1010 5B

Oil Spill and Oil Pollution Reports May 1975 - July 1975,
W77-05024 1010 5B

Oil Spill and Oil Pollution Reports November 1975 - January 1976,
W77-05025 1010 5B

Oil Spill and Oil Pollution Reports February 1976 - April 1976,
W77-05026 1010 5B

Hydrocarbons in the Ocean,
W77-05139 1011 5B

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Oil Spill Apparatus,
W77-05667 1012 5G

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

United States V Norfolk Dredging Company ($3,000 Penalty for Minor Oil Spill not Excessive).
W77-06058 1012 6E

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Rigging System for an Endless Oil Mop,
W77-06459 1013 5G

International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

Pollution--No Private Compensation for Invasion of Public Rights Absent Particular Damages, Burgess V the Tamano, 1973 A.M.C. 1939 (D ME 1973),
W77-06546 1013 5G

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

Optimal Oil Tanker Size with Regard to Environmental Impact of Oil Spills,
W77-06702 1014 5G

Impact of Oil Spillage from World War II Tanker Sinkings,
W77-06877 1014 5C

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

Rules and Regulations for Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Domestic Trade,
W77-07254 1015 5G

Oil Spill at Deception Bay, Hudson Strait,
W77-07731 1016 5G

Characteristics of the Areas in Which Fast Current Oil Control is Needed,
W77-07741 1016 5G

Verification by Remote Sensing of an Oil Slick Movement Prediction Model,
W77-07745 1016 5B

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

Determination of the Leeway of Oil Slicks,
W77-07800 1016 5B

The ARGO MERCHANT Oil Spill. A Preliminary Scientific Report,
W77-07807 1016 5C

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Method of Dispersing Oil in Water,
W77-08260 1017 5G

The Import - Export Clause and Control of Oil Pollution: Regulatory Fee Imposed Pursuant to the Police Power,
W77-08354 1017 5G

Oil Spills and Spills of Hazardous Substances.
W77-08385 1017 5G

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Detergent Composition for Dispersing Oil Spills,
W77-08884 1018 5G

Fending Device for Oil Containment Boom,
W77-08892 1018 5G

Identification of Weathered Oil Films Found in the Marine Environment,
W77-08901 1018 5A

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

Tests of Oil Recovery Devices in Broken Ice Fields. Phase I,
W77-08915 1018 5G

Control of Pollution by Oil and Hazardous Substances, Discharge Removal.
W77-08987 1018 5G

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

Users Manual - Oil and Hazardous Materials Spill Information Retrieval System.
W77-09229 1019 5G

Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

Evaluation of Petroleum-Degrading Potential of Bacteria from Water and Sediment,
W77-09472 1019 5B

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

What Are We Doing About Oil Spill,
W77-09553 1019 5G

Lansco, Inc. v Department of Environmental Protection (Insuror's Liability for Cost of Clean Up of Oil Spills).
W77-09574 1019 6E

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

A Study to Evaluate the Intensity of an Alternate Methods for Neutralization of DOD Aircraft Fuel Spills, Phase I,
W77-09774 1020 5G

Oil Spill Identification System.
W77-10024 1020 5A

Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Ward V Coleman (Constitutionality, and the Criminal or Civil Nature of Fines Under the Federal Water Pollution Control Act).
W77-10479 1021 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

Redesign, Fabrication and Test of a 1000-GPM High Seas Oil Recovery System and Design Only of a 500-GPM High Seas Oil Recovery System,
W77-10879 1022 5G

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

Process for Emergency Small Spill Control,
W77-11005 1022 5G

State Protection from Oil Spills: Askew v American Waterways Operators, Inc.,
W77-11153 1022 6E

People v Texaco, Inc (County Regulation of Tidewater Bordering on or Lying Within its Boundaries).
W77-11204 1022 6E

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

Responses of Arctic Marine Benthic Crustaceans to Sediments Contaminated with Crude Oil,
W77-11346 1022 5C

National and International Efforts to Prevent Traumatic Vessel Source Oil Pollution,
W77-11467 1022 5G

Supertankers and the Law of the Sea,
W77-11472 1022 6E

Oil-Spill Dispersant for Marine Pollution.
W77-11549 1023 5G

VLCC 'METULA' Oil Spill,
W77-11889 1023 5G

Social Cost of Oil Pollution,
W77-11892 1023 5G

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

Oil/Water Separator Evaluation,
W77-11912 1023 5G

Lightweight End Connectors for Pollution Containment Boom,
W77-11925 1023 5G

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

An Analysis of the Management Information System for U.S. Coast Guard Aircraft Pollution Patrols,
W77-12562 1024 5A

Oil Pick Up Device,
W77-12691 1024 5G

Pick-Up Element for Oily Contaminants,
W77-12707 1024 5G

Method of Removing Oil from Water Using Rice Hulls,
W77-12708 1024 5G

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

The MIT/Marine Industry Collegium Opportunity Brief No. 9. Oil Spills: Problems and Opportunities.
W77-12917 1024 5G

OIL STORAGE
Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

OIL TANKERS
Optimal Oil Tanker Size with Regard to Environmental Impact of Oil Spills,
W77-06702 1014 5G

OIL TRANSPORTATION
Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

OIL WASTE DISPOSAL
Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

OIL WASTES
Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Measurement of Urban Runoff Petroleum,
W77-00678 1002 5B

Pelagic Tar,
W77-00969 1002 5B

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Case of Subsurface Water Pollution by Petroleum Product Wastes, (In Russian),
W77-02273 1005 5B

Syncrude Vows Environmental Responsibility,
W77-02600 1006 5D

Handling Discharges from Waste Oil Processing,
W77-02604 1006 5D

An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

The Effect of Oil Pollution in Bantry Bay,
W77-03194 1007 5C

Olympic Alliance Oil Spillage,
W77-03195 1007 5C

Toxicity of Crude Oils and a Dispersant to the Stony Coral Madracis Mirabilis,
W77-03196 1007 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Oil Conservation and Reclamation,
W77-04455 1009 5D

The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Sampling Device for Monitoring Biodegradation of Oil and Other Pollutants in Aquatic Environments,
W77-04801 1010 5B

Industrial Water and Air Pollution Control,
W77-05512 1011 5D

The Treatment of Waste Emulsified Oils by Ultrafiltration,
W77-06221 1013 5D

Designing Parallel-Plates Separators,
W77-06222 1013 5D

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

Effects of Benzene (A Toxic Component of Petroleum) on Spawning Pacific Herring, Clupea harengus pallasi,
W77-07137 1015 5C

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Ultrafiltration Oil Reclamation Process,
W77-07212 1015 5D

Techniques for Purifying Oily Waste Water,
W77-07213 1015 5D

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk,
W77-07251 1015 5G

Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1975,
W77-07334 1015 5G

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Mutagenic Potential of Petroleum Byproducts in Chesapeake Bay Waters,
W77-07606 1016 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Celluloytic Bacteria,
W77-07736 1016 5C

Degradation of Petroleum by an Alga, Prototheca Zopfii,
W77-07737 1016 5C

A Method for Determining Oil in Water,
W77-07756 1016 5A

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

Method of Filtering Oil from Liquids,
W77-08011 1016 5G

The Role of Protozoa in Biological Purification of Oil Industry Sewage, (In Russian),
W77-08254 1017 5D

Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Air Flotation of Oily Waste Waters with Organic Coagulants,
W77-08282 1017 5D

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Alternative Methods of Phenol Wastewater Control,
W77-09419 1019 5D

Refinery Effluent Improved by Gravity-Pressure Dewatering,
W77-09420 1019 5D

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

Method for Detecting Oil in Water,
W77-09813 1020 5A

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Operating Experiences on Petrochemicals Waste Water Treatment Plant of Gujarat Aromatics Project at Jawaharnagar,
W77-10351 1021 5D

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Pollution Prevention--Vessel and Oil Transfer Facilities.
W77-11461 1022 5G

Biological Evaluation of Best Practicable and Best Available Treatment Control Technology for Petroleum Refinery Wastewaters,
W77-11790 1023 5D

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

OIL-WATER INTERFACE
The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

OIL-WATER INTERFACES
The Interaction of Waves and Oil Spill,
W77-02669 1006 5B

Study of the Solubility of Oil in Water,
W77-02765 1006 5A

Selection Criteria and Laboratory Evaluation of Oil Spill Sorbents.
W77-02769 1006 5G

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

OIL-WATER SEPARATION
Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

OIL-WATER SEPARATORS
Oil/Water Separator Evaluation,
W77-11912 1023 5G

Oil/Water Separation with Noncellulosic Ultrafiltration Systems,
W77-11913 1023 5G

OIL WATERS
Olympic Alliance Oil Spillage,
W77-03195 1007 5C

OIL WELLS
New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

Improved Drilling is a Result of Sound Engineering,
W77-04121 1009 8G

Slurry and Pumping Guidelines Smooth Casing-Cementing Jobs,
W77-07699 1016 8F

Research on Cements for Geothermal and Deep Oil Wells,
W77-08320 1017 8F

OILED SEALS
Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

OILL POLLUTION
Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

OILSEED CROPS
Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, III. Oilseed Crops,
W77-03634 1008 3F

Water Management in Linseed,
W77-04788 1010 3F

OILY WATER
Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Process for Removing Dispersed Matter from Water,
W77-00684 1002 5G

Removal of Contaminants from Water,
W77-00687 1002 5G

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Oil-in-Water Monitor,
W77-01201 1003 5A

Waste Water Treatment,
W77-01217 1003 5D

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

The Microbial Degradation of Oil in Continuous Culture,
W77-03012 1006 5B

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

Pump-Filter for Bilge Water,
W77-08261 1017 5G

Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Process for Removing Oil from Oily Waste Water Streams,
W77-11922 1023 5D

Oil-Water Separation Apparatus,
W77-12702 1024 5G

OITHONA SIMILIS
Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

OKA RIVER (USSR)
Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

OKEFENOKEE SWAMP (GEO)
Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

OKITSU BAY (JAPAN)
Edwardsiella Tarda from an Epizootic of Mullets (Mugil Cephalus) in Okitsu Bay, (In Japanese),
W77-02718 1006 5C

OKLAHOMA
Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

Evaluating Ground-Water Paths Using Hydraulic Conductivities,
W77-00651 1002 2F

Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

Leases of Lakes, Ponds, Streams and Reservoirs.
W77-01116 1003 6E

Water Power Companies--Eminent Domain,
W77-01117 1003 6E

Mining and Manufacturing Corporations.
W77-01118 1003 6E

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Records of Wells and Water Quality for the Garber-Wellington Aquifer, Northern Oklahoma and Southern Logan Counties, Oklahoma,
W77-02974 1006 4B

Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Talley V Carley (Priorities to Water in 1963 Amendment to 82 Oklahoma Statutes Annotated Section 1-A).
W77-03521 1007 6E

Protection of Water Supply.
W77-03719 1008 6E

Deleterious Substances in Streams.
W77-03721 1008 6E

Ownership of Water.
W77-03722 1008 6E

Acquisition of Property (Islands).
W77-03723 1008 6E

Water and Sewage.
W77-03724 1008 6E

Water Transportation Service.
W77-03725 1008 6E

Condemnation of Land and Water Rights.
W77-03726 1008 6E

Levees, Drains and Ditches,
W77-03727 1008 6E

Water Reservoirs.
W77-04381 1009 6E

Oklahoma Planning and Resources Board.
W77-04382 1009 6E

Ground-Water Levels in Observation Wells in Oklahoma, 1971-74,
W77-05275 1011 7C

Distribution of Benthic Macroinvertebrates in an Artificially Destratified Reservoir,
W77-05485 1011 5B

Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

Flood Control in Oklahoma: An Example of Land Use Preceding Land Use Planning,
W77-06542 1013 4A

Lowrey v. Hodges (Temporary Permits to Use Ground Water for Irrigation).
W77-06567 1013 6E

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

Remote Sensing Techniques for Prediction of Watershed Runoff,
W77-08075 1016 7B

Selected Water-Level Records for Western Oklahoma, 1950-1975,
W77-08163 1017 7C

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

Hydrologic Unit Map--1974, State of Oklahoma.
W77-08475 1017 7C

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Flood Plain Information, Adams Creek and Tributaries, Tulsa and Wagoner Counties, OK.
W77-09375 1019 4A

Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

Water Reuse in a Paper Reprocessing Plant,
W77-09757 1020 5D

Selected Water-Level Records for Western Oklahoma, 1975-1976,
W77-09998 1020 7C

Ground-Water Levels in Observation Wells in Oklahoma, 1975,
W77-09999 1020 7C

A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

Ward V Coleman (Constitutionality, and the Criminal or Civil Nature of Fines Under the Federal Water Pollution Control Act).
W77-10479 1021 6E

Index of Published Surface-Water-Quality Data for Oklahoma 1946-1975,
W77-10567 1021 7C

Water-Resources Investigations in Oklahoma, 1976.
W77-10574 1021 7A

Hodgen v Kliewer (Boundary Changes Proper for Accretion but not Avulsion).
W77-11187 1022 6E

Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

OLD RIVER CONTROL STRUCTURE (LA)

Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

OLDSQUAW DUCK

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

OLDSQUAWS

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

OLEIC ACID

Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

OLENTANGY RIVER (OH)

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

OLFACTORY RESPONSE

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

OLFACTORY SENSITIVITY

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

OLIFANTS RIVER

Further Important Features of the Fish Fauna of the Clanwilliam Olifants River System, Southwestern Cape,
W77-10090 1020 2E

OLIGOCHAETA

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

OLIGOCHAETES

Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

Tubificids (Oligochaeta: Tubificidae) - Indicators of the Quality of Water Bodies, (In Russian),
W77-02225 1005 5A

Toxicological Characteristics of Acute Phenol Intoxication in Some Freshwater Worms, (In Russian),
W77-02237 1005 5C

The Mining Fauna in Four Macrophyte Species in Mikolajskie Lake,
W77-06688 1014 5C

OLIGOCHAETES

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Qualitative and Quantitative Studies on the Meiofauna of a Tropical Fresh Water Stream Subject to Tidal Influence, (In Italian),
W77-07390 1015 5C

Role of Oligochaetes in the Circulation of Water and Solutes Across the Mud-Water Interface,
W77-07508 1015 5C

A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

Oligochaeta of the Deniester River Mouth Region, (In Russian),
W77-10065 1020 2L

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part II - Effects on Respiration Rate,
W77-11359 1022 5C

OLIGOCOTTUS MACULOSUS

Temperature and the Vertical Distribution of Two Tidepool Fishes (Oligocottus Maculosus, O. Snyderi),
W77-01060 1003 5C

OLIGOCOTTUS SNYDERI

Temperature and the Vertical Distribution of Two Tidepool Fishes (Oligocottus Maculosus, O. Snyderi),
W77-01060 1003 5C

OLIGOPOL GAME

Application of Game Theory in Water Management,
W77-04009 1008 6A

OLIGOTHROPHY

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

OLIGOTROPHIC

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

OLIGOTROPHIC LAKES

Lake Ontario Atlas: Chemistry,
W77-11654 1023 5C

OLIGOTROPHY

The Macrophyte Vegetation of Five Lakes in Vefsn, Nordland County, North Norway, (In Norwegian),
W77-00823 1002 5C

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

Limnological Studies of Flathead Lake, Montana: A Status Report,
W77-01796 1004 5C

Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Elements of Limnological Specificity of Large Lakes in the Temperate Zone, (In Russian),
W77-02260 1005 2H

First Report on the Limnology of the Alpine Lake La Caldera, in the Penibetic Mountains (Sierra Nevada, Granada, Spain),
W77-04150 1009 5C

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

Primary Production and Biomass of Algae Populations in an Oligotrophic Lake in the French Massif Central, (In French),
W77-07398 1015 5C

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

Algal Productivity of Natural and Artificially Enriched Fresh Waters in Malaya,
W77-07471 1015 5C

Hydrophyte Biomass and Community Structure in a Small Oligotrophic New Hampshire Lake,
W77-07969 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

Limnological Studies in a Large, Deep, Oligotrophic Lake (Lake Ohrid, Yugoslavia). Evaluation of Nutrient Availability and Control of Phytoplankton Production Through In Situ Radiobioassay Procedures,
W77-10141 1021 5C

Zooplankton and Phytoplankton Studies in the Waterton Lakes, Alberta, Canada,
W77-11415 1022 5C

Effects of Continuous Enrichment with Nitrates on Populations of Diatoms Isolated with the Aid of Enclosures in an Oligotrophic Pond, (In French),
W77-12972 1024 5C

OLKOVAYE RESERVOIR (USSR)

Effect of Mine Wastewaters on the Water Quality of the Ol'khovoye Reservoir, (In Russian),
W77-02242 1005 5C

OLSZEWSKI TUBES

Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

OMNIBUS ADJUSTMENT ACT OF 1926

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

ON-SITE CONVERSION

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

ON-SITE DATA COLLECTION

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

ON-SITE DATA COLLECTIONS

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Rex, A Computer Controlled Robot for in Situ Water Quality Monitoring,
W77-02814 1006 5A

An Investigation into the Effects of Forestry Plantations on the Water Quality of Upland Reservoirs in Northern Ireland,
W77-03840 1008 5B

Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

The Effects of Dredging on Water Quality in the Northwest,
W77-06535 1013 5G

Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

Temperature Regime in Lake Superior at Silver Bay, Minnesota,
W77-07970 1016 1A

Remote Sensing of Mississippi River Characteristics,
W77-08070 1016 7B

Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

The Importance of Monitoring Change,
W77-09591 1019 5A

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

A Bottle Holder for In Situ Primary Productivity Studies,
W77-12189 1023 5A

Urban Runoff Characteristics: Volume II - Field Investigations,
W77-12478 1024 5B

A Survey of Commercially Available Automatic Wastewater Samplers,
W77-12481 1024 5A

ON-SITE INVESTIGATION

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

Survival of Coho Salmon Fingerlings Passing Through a Perforated Bulkhead in an Empty Turbine Bay and Through Flow Deflectors (With and Without Dentates) on Spillway at Lower Monumental Dam, Snake River, April-May, 1973,
W77-04405 1009 5C

Dissolved Gas Supersaturation: Live Cage Bioassays of Rock Island Dam, Washington,
W77-04417 1009 5C

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

ON-SITE INVESTIGATIONS

Characteristics of Rural Household Wastewater,
W76-00048 1001 5A

Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

An Investigation of a Cold Eddy on the Eastern Side of the Gulf Stream Using NOAA 2 and NOAA 3 Satellite Data and Ship Data,
W77-00364 1001 2L

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

A Cyclesonde View of Coastal Upwelling,
W77-00654 1002 2L

Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Field Mapping Soil Conductivity to Delineate Dryland Saline Seeps with Four-Electrode Technique,
W77-01622 1004 2G

The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

A Note on the Contribution of Rime and Surface Hoar to the Accumulation on the Ross Ice Shelf, Antarctica,
W77-02469 1005 2C

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

Suspended Sediments' from Urban Development,
W77-02788 1006 4C

Suspended Sediment Production and Building Activity in a Small British Basin,
W77-02792 1006 4C

Circulation, Diffusion and Frontal Dynamics in the Coastal Zone,
W77-02794 1006 2H

Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

Seasonal Variation of Residual Drift in Long Island Sound,
W77-03322 1007 2L

Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

Measurements of Waves in Southampton Water and their Variation with the Velocity of the Tidal Current,
W77-03856 1008 2L

Glacial Lake Sedimentation, Austerdalsisen, Norway,
W77-04005 1008 2J

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Supersaturation and Fishery Observations in Selected Alpine Oregon Stream,
W77-04418 1009 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Peat Hydrology in the Hula Basin, Israel: II. Subsurface Flow Regime,
W77-05790 1012 2G

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

In Situ Acoustic Measurements of Microbubbles at Sea,
W77-06916 1014 2L

Optic Device for Observations of Small Organisms Under Water, (In Russian),
W77-06926 1014 7B

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

ON-SITE INVESTIGATIONS

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-08654 1018 4B

The Maximum Extent of Glaciers in Part of West Falkland,
W77-09032 1018 2C

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

Model Calculations for the Extraction of Soil Water by Ceramic Cups and Plates,
W77-11230 1022 2G

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Comprehensive Geohydrological Study of Consolidated Sedimentary Rocks in Bornholm,
W77-11813 1023 2F

Movement of Cobbles in a Gravel-Bed Stream During a Flood Season,
W77-12318 1024 2J

Urban Runoff Characteristics: Volume II - Field Investigations,
W77-12478 1024 5B

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

ON-SITE LABORATORIES

Gas Supersaturation Research, National Marine Fisheries Service Prescott Facility - 1971 to 1974,
W77-04415 1009 5C

Dissolved Gas Supersaturation: Live Cage Bioassays of Rock Island Dam, Washington,
W77-04417 1009 5C

ON-SITE OBSERVATIONS

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

ON-SITE STUDIES

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

ON-SITE TEST

Dissolved Gas Supersaturation: Live Cage Bioassays of Rock Island Dam, Washington,
W77-04417 1009 5C

ON-SITE TESTS

Engineering Study and Field Demonstration Trials for Sand Dune Stabilization,
W77-00032 1001 5E

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Open Tank Pure Oxygen System Begins Operation,
W77-02359 1005 5D

Gas Supersaturation Research, National Marine Fisheries Service Prescott Facility - 1971 to 1974,
W77-04415 1009 5C

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

Pumping Tests Provide Useful Data,
W77-08658 1018 8G

Evolution of Multijet Sleeve Valve,
W77-10117 1021 8C

Experimental Determination of the Radio Emission of the Underlying Surface on Lambda = 2.1 CM,
W77-10322 1021 7B

Wastewater Flow Measurement in Sewers Using Ultrasound,
W77-11759 1023 7B

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

ON-SITE WASTE WATER TREATMENT

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

New Visibility for On-Site Waste Treatment Systems,
W77-07013 1014 5D

ON-THE-SITE INVESTIGATIONS

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

ONCOMELANIID SNAILS

The Role of Silt in Eradication of Oncomelaniid Snails in Grassy Beaches, (In Chinese).
W77-02245 1005 5G

ONE DIMENSIONAL

Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

ONEIDA CREEK (NY)

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

ONISIMUS

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

ONO RESERVOIR (JAPAN)

Limnological Studies of the Ono Reservoir: Third Report, (In Japanese),
W77-11713 1023 5C

ONOBRYCHIS-FERGANICA

Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

ONSAGER RECIPROCAL RELATIONS

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

ONSHORE IMPACT

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

ONSLOW BAY (NC)

Hydrography of Onslow Bay, North Carolina: September 1975 (OBIS II),
W77-04837 1010 2L

Onslow Bay Intrusion Study: Hydrographic Observations During Current Meter Servicing Cruises in August, October, and December 1975 OBIS I, III and IV,
W77-04839 1010 2L

ONTARIO

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

Monitoring of Community Water Supplies,
W77-03463 1007 5A

Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

ONTARIO (CANADA)

Economic and Environmental Impacts of Agricultural Land Drainage in Ontario,
W77-02425 1005 4A

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 1. The Information System,
W77-11218 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 2. Model Development,
W77-11219 1022 2A

Distributed Numerical Model for Estimating Runoff and Sediment Discharge of Ungaged Rivers, 3. Comparison with Other Simple Techniques,
W77-11220 1022 2A

ONTOGENESIS

Mineral Metabolism During the Ontogenesis of Rainbow Trout (Salmo Gairdneri),
W77-04039 1008 5C

OOSPOREIN
Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

OPEN CHANNEL FLOW
Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

Free Surface Flow in a Channel of Large Relative Roughness,
W77-00649 1002 2E

Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

Minimum Unit Stream Power and Fluvial Hydraulics,
W77-03080 1007 8B

Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

Experimental Investigation of Flow Over Side Weirs,
W77-03317 1007 8B

Supercritical Flow Over Sills,
W77-03747 1008 8B

Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

Some Computational Aspects of One- and Two-Dimensional Unsteady Flow Simulation by the Method of Characteristics,
W77-08745 1018 2E

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

A Mathematical Model for Transient Open Channel Flow: A Water Resource Planning and Management Tool,
W77-10290 1021 2E

End Depth Under Zero-Inertia Conditions,
W77-10302 1021 8B

Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

Missouri River Temperature Effects in the Transition from Dunes to Plane Bed,
W77-10572 1021 2E

Deterministic and Stochastic Approaches for Modelling of Longitudinal Dispersion in a Turbulent Open Channel Flow,
W77-10794 1021 5B

Dispersion of Sediment Particles,
W77-10795 1021 2J

Venturi Flumes for Circular Channels,
W77-12721 1024 8B

OPEN CHANNEL FLOWS
Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

OPEN CHANNELS
The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

A Note on Plexiglas HS Flumes,
W77-05965 1012 5A

Optimization Model of a System of Two Open-Channel Hydroplants,
W77-06716 1014 4A

Alternative Measures of River Channel Shape and Their Significance,
W77-08241 1017 8B

OPEN FEEDLOT
Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

OPEN LAKE DISPOSAL
A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

OPEN SPACE
People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

OPEN SPACES PRESERVATION
Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

OPERATING COSTS
The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

Pumping Policies in Water Supply,
W77-01177 1003 4A

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Criteria for Candidate Species for Aquaculture,
W77-04171 1009 6C

Construction and Maintenance Costs of Sewer Systems (Bau- und Betriebskosten von Kanalisationsanlagen),
W77-08542 1017 8A

OPERATING POLICY
Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

Operating Policy Adaptations for a Reservoir Systems, (Phase I),
W77-07603 1016 4A

OPERATING POLICY ALGORITHM
Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

OPERATING RULE
Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

OPERATING RULES
Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

A New Approach for Estimating Irrigation Conveyance Losses and Their Economic Evaluation,
W77-12164 1023 3F

OPERATION
Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

OPERATION AND MAINTENANCE
Prevention is Best,
W77-00208 1001 5G

Relation of Operation and Maintenance to Treatment Plant Efficiency,
W77-00582 1002 5D

The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Investigation of Dynamic Performance of Waste Water Treatment Plants,
W77-08094 1016 5D

Application of Membrane Processes,
W77-09929 1020 3A

Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

Catchbasin Technology Overview and Assessment,
W77-12495 1024 5D

Continuing Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants.
W77-12586 1024 5D

OPERATIONS
Relation of Operation and Maintenance to Treatment Plant Efficiency,
W77-00582 1002 5D

Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Some Reflections of a Sewage Works Manager,
W77-07952 1016 5D

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Design and Operation of Rain Spillways and Rain Overflow Catchment (Entwurf and Betrieb von Regenuberlaufen (Ru) und Regenuberlaufbecken (RUB),
W77-09822 1020 8B

The KWA Dabeka-Clermont Sewerage Scheme-Planning, Design and Operation,
W77-10220 1021 5D

Keep Maintenance in Mind When Designing or Using Pumps.
W77-11488 1022 5D

Operation Control.
W77-11498 1022 5D

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

OPERATIONS RESEARCH

The Utilization of the APT and ATS Satellite Communication Systems in Coastal Research Programs,
W77-04483 1009 2L

Mathematical Models in Hydrology.
W77-06708 1014 2A

Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

OPERCULAR RATES

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

OPERCULAR RHYTHMS (FISH)

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

OPHICEPHALUS PUNCTATUS

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

OPOSSUM

Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

OPPORTUNITY COST THEORY

Principles of Determining a Social Discount Rate,
W77-02518 1005 6B

OPTHALMIC PATHOLOGY

Ocular Oxygen Concentrations Accompanying Severe Chronic Opthalmic Pathology in the Lake Trout (Salvelinus Namaycush),
W77-06035 1012 5C

OPTIC DEVICE

Optic Device for Observations of Small Organisms Under Water, (In Russian),
W77-06926 1014 7B

OPTICAL PROPERTIES

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Measurement of 'Turbidity' and Related Characteristics of Natural Waters,
W77-03339 1007 7B

Drought Effect on the Optical Properties of Winter Wheat Leaves, (In Ukranian),
W77-04916 1010 2I

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

Remote Measurement of 'Turbidity' and Other Water Quality Parameters,
W77-10985 1022 5A

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

OPTIMAL ARTIFICIAL AERATION

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

OPTIMAL ARTIFICIAL AERATION SCHEME

Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

OPTIMAL ESTIMATION

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

OPTIMAL OPERATION

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

OPTIMAL OPERATION (RESERVOIRS)

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

OPTIMIZATION

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

Economic Optimum Record Length,
W77-00117 1001 4A

Optimization of State Water Quality Monitoring Systems,
W77-00120 1001 5G

Systematic Approach to Water Resources Plan Formulation.
W77-00532 1002 6A

Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

A Search Technique for Formulating Improved Water Resources Configurations, Part II,
W77-00534 1002 6A

Screening Models in Water Resources Planning, Part III,
W77-00535 1002 6A

Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

Optimal Exploitation of Multiple Stocks by a Common Fishery: A New Methodology,
W77-00920 1002 6A

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

Pumping Policies in Water Supply,
W77-01177 1003 4A

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

Optimization of Water Resource Systems Incorporating Earthquake Risk,
W77-02831 1006 6A

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

Application of a Model for Layout and Design of Sewer Systems,
W77-03133 1007 5B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

Technical Assistance Project Greeley Wastewater Treatment Facility, Greeley, Colorado. June-July, 1972,
W77-03368 1007 5D

Economic Modeling for Water Policy Evaluation.
W77-03924 1008 6A

Multilevel Incremental Dynamic Programing,
W77-03937 1008 6A

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Optimization of Crop Irrigation Strategy Under a Stochastic Weather Regime: A Simulation Study,
W77-03941 1008 3F

A Selected Annotated Bibliography on the Analysis of Water Resource Systems, Seventh Volume.
W77-03967 1008 6A

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

Optimization Model for the Design of Urban Flood-Control Systems,
W77-04179 1009 2E

Optimization of Multistage Secondary Clarifier,
W77-04695 1010 5D

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Surface-Water Quality Management Models,
W77-05014 1010 5G

Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

Optimum Control of Irrigation Water Application,
W77-05193 1011 3F

Network Design for the Estimation of Areal Mean of Rainfall Events,
W77-05194 1011 2B

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

Optimization of Water Pumping Costs by Hierarchical Methods,
W77-05245 1011 6C

Minimum Cost Design Using a Pre-Planned Nodal Search Method,
W77-05246 1011 4A

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

The Optimization of Chemical Precipitation: Flocculation of Municipal Waste Waters,
W77-05324 1011 5D

Discrete Representation of Storage for Stochastic Reservoir Optimization,
W77-05921 1012 4A

Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Analysis of Regional Waste Treatment Systems,
W77-05987 1012 5D

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

Optimizing Costs of Waste Treatment Facilities Using Value Analysis,
W77-06156 1013 5D

Effects of Stream Channel Improvements on Downstream Floods,
W77-06397 1013 2A

Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

Optimal Oil Tanker Size with Regard to Environmental Impact of Oil Spills,
W77-06702 1014 5G

Mathematical Models in Hydrology.
W77-06708 1014 2A

On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

Optimization Model of a System of Two Open-Channel Hydroplants,
W77-06716 1014 4A

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

A Dynamic Multisector Programming Approach to Regional Water Resource Management,
W77-06737 1014 6A

Pumped Storage Optimization in Generation Systems,
W77-07525 1015 4A

Management Model for Ground Water Development,
W77-07529 1015 4B

Modeling Multiple-Use in Natural Areas: Part I – The Basic Formulation,
W77-07530 1015 6A

Network Approach to Optimal Wastewater Treatment System Design,
W77-07531 1015 5D

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

Reservoir Operation Under Conflicting Objectives,
W77-07536 1015 4A

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

Reducing Power Consumption in Irrigation Systems with the Aid of a Mathematical Model for Pipe Dimensioning,
W77-07547 1015 3F

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Optimal Operation of Water Resources Systems--I,
W77-08047 1016 4A

Optimal Operation of Water Resources Systems--II,
W77-08048 1016 4A

Planning of Systems for Regional Development in Water Resources,
W77-08049 1016 6A

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

On-Line Models for Computerized Control of Combined Sewers,
W77-09207 1019 5D

System Design of a Tubular Reverse Osmosis Plant,
W77-09319 1019 5F

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

Designing Simulation Models for Optimization Studies,
W77-10808 1022 6A

Simulation and Optimisation of a Biological Water Treatment Plant,
W77-10816 1022 5D

A Catchment Simulation Model Developed for Urban and Urbanising Catchments with Particular Reference to the Use of Automatic Optimization Techniques,
W77-10823 1022 2E

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Activated Sludge Process Design,
W77-12407 1024 5D

Management for Optimum Efficiency,
W77-12510 1024 3F

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

Optimization of Subunit Dimensions for Pressurized Irrigation Systems,
W77-12710 1024 3F

Optimal On-Farm Allocation of Irrigation Water,
W77-12719 1024 3F

OPTIMUM DEVELOPMENT PLANS

Systematic Approach to Water Resources Plan Formulation.
W77-00532 1002 6A

Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

Optimal Investment in Pollution Control Capital in a Neoclassical Growth Context,
W77-06705 1014 6G

General Description of the Vistula River Project and Basic Planning Data,
W77-06733 1014 4A

Some Arithmetical Relations of a Matrix for a Calculus of Reservoirs, (Quelques Relations Arithmetiques de Matrice dans le Calcul des Reservoirs),
W77-07682 1016 4A

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

Future Water Policies (A Commentary on the National Water Commission Report),
W77-11160 1022 6E

OPTIMUM (LEAST COST) SYSTEMS

Optimal Systems of Storm Water Detention Basins in Urban Areas,
W77-10184 1021 4D

OPTIMUM SOIL MOISTURE

Problems of Optimum Soil Moisture Level: Determination and Control, (In Russian),
W77-08952 1018 2G

ORANGE AND LAKE COUNTIES (FLA)

Hydrologic Considerations in Dewatering and Refilling Lake Carlton, Orange and Lake Counties, Florida,
W77-09080 1018 5G

ORANGE COUNTY (CALIF)

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

ORANGE COUNTY (FLA)

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

ORANGE-FISH TUNNEL (SOUTH AFRICA)

The Day They Almost Abandoned the Orange-Fish Tunnel,
W77-10077 1020 8A

ORANGE FREE STATE

Waterfowl (Anatidae) on Irrigation Lakes in the Orange Free State,
W77-10097 1020 2H

ORANGE RIVER PROJECT

The Orange-Fish Tunnel - The Longest Aqueduct in the Southern Hemisphere (Die Oranje-Vistonnel - Langste akwaduk in suidelike halfrond).
W77-01384 1003 8A

83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

ORANGE RIVER (SO AFRICA)

R10 Million Water Scheme Nears Completion, Irrigating the Islands of the Orange.
W77-01375 1003 3F

ORCHARDS

The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

Uniformity of Distribution in Undertree Irrigation in Orchards,
W77-12508 1024 3F

ORE DEPOSITS

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

ORE MINING AND MILLING

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Industry Category 1a, Ore Mining and Milling.
W77-04303 1009 5G

OREGON

Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

A Cyclesonde View of Coastal Upwelling,
W77-00654 1002 2L

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

Project Development and Data Programs for Assessing the Quality of the Willamette River, Oregon,
W77-02301 1005 2E

Groundwater Pollution by Wood Waste Disposal,
W77-02591 1006 5B

Oregons's Estuaries,
W77-02593 1006 2L

Klamath River Basin Compact.
W77-03705 1008 6E

Oregon- California Goose Lake Interstate Compact.
W77-03706 1008 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Desert Repaired in Southeastern Oregon: A Case Study in Range Management,
W77-03742 1008 4D

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Supersaturation and Fishery Observations in Selected Alpine Oregon Stream,
W77-04418 1009 5C

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Oregon Coastal Zone Land: Use, Ownership, and Value Change,
W77-05058 1010 6B

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

Lakes of Oregon: Volume 4. Clackamas County,
W77-05283 1011 2H

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Miscellaneous Provisions on Water Rights, Uses and Protection,
W77-06571 1013 6E

Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

Water Flux in Soil and Subsoil on a Steep Forested Slope,
W77-07147 1015 2G

Wood V Woodcock (Rights of Adjoining Landowners to Seepage Water from Joint Irrigation Ditch),
W77-07278 1015 6E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

Withdrawal of Certain Waters from Appropriation: Special Municipal and County Water Rights,
W77-08142 1017 6E

Appropriation of Water for Power (Hydroelectric Power Projects).
W77-08395 1017 6E

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

Coastal Zones.
W77-09566 1019 6E

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

Wimmer v Compton (Assessment of Floodwater Damages in Cases Involving Adjacent Landowners).
W77-09569 1019 6E

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

The Causes of Erosion to Siletz Spit, Oregon,
W77-10039 1020 2L

The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

State V Wilson (Seasonally Flowing Stream Not Constantly Flowing Stream).
W77-10486 1021 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

Water Districts; Water Masters; Distribution of Water Generally: Change in Use or Transfer of Rights.
W77-10494 1021 6E

Ground Water Act of 1955 (Regulation of Underground Waters Thru a Permit System).
W77-10495 1021 6E

Scenic Waterways (Designation, Acquisition, and Protection).
W77-10496 1021 6E

Submersible and Submerged Lands (State Ownership or Jurisdiction).
W77-10497 1021 6E

A Bibliography of Estuarine Research in Oregon,
W77-10511 1021 2L

Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

Public Rights in Ocean Beaches: A Theory of Prescription,
W77-11157 1022 6E

Procedure for Determining or Establishing Water Rights in State Streams.
W77-11197 1022 6E

Water Control Districts.
W77-11198 1022 6E

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

OREGON BAYS
Oregons's Estuaries,
W77-02593 1006 2L

OREGON COASTAL CONSERVATION AND DEVELOPMENT COMMISSION
Coastal Zones.
W77-09566 1019 6E

OREGON ESTUARIES
Oregons's Estuaries,
W77-02593 1006 2L

OREGON INLET (NC)
Exchange Through a Barrier Island Inlet: Additional Evidence of Upwelling Off the Northeast Coast of North Carolina,
W77-06654 1014 2L

OREL RIVER (USSR)
Hydrochemical Characteristics of the Orel River, (In Russian),
W77-02234 1005 5A

ORGANIC ACIDS
Complexation of Trace Metals by Ethylenediaminetetraacetic Acid (EDTA) in Natural Waters,
W77-00604 1002 5A

Hygienic Characteristics of Wastewater Treatment Processes of Flax-Processing Plants, (In Russian),
W77-01556 1004 5D

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: I. On the Tolerance of Marsh and Water Plants of P-Toluene Sulfonic Acid, (In German),
W77-05099 1010 5C

Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: II. Elimination of P-Toluene Sulfonic Acid in Model Systems With Marsh and Water Plants, (In German),
W77-05100 1010 5C

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

Experimental Verification of the Maximum Permissible Concentration on Methyl and Butyl Esters of Methacrylic Acid in Water Bodies, (In Russian),
W77-06299 1013 5C

Effect of Organic Acids on Experimental Manganese Isolation from Bottom Sediments, (In Russian),
W77-07597 1015 5B

Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

ORGANIC CARBON
Ecology of Aquatic Saprophytic Phycomycetes. II, (In Russian),
W77-03201 1007 5C

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

Experiences with the Organic Carbon Analyzer (TOC) by Merz for Routine Monitoring at the BASF Purification Plant (Erfahrungen mit dem TOC-Schnellbestimmer nach Merz in der Routineueberwachung der BASF),
W77-09894 1020 5A

Parameters which Influence the Organic Carbon Determination in Water,
W77-10092 1020 5A

Influence of Organic Carbon and Microorganisms on Iron and Sulfide Concentrations in Groundwater,
W77-10183 1021 5B

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

ORGANIC CARBON BUDGET
An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

ORGANIC CARBON (SOLUBLE)
Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

ORGANIC CHLORIDES
Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

ORGANIC COMPOUNDS
Pyrolysis of Sewage Sludge,
W77-00024 1001 5E

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

Identification and Analysis of Organic Pollutants in Water.
W77-00455 1001 5A

GS/MS (Gas Chromatographic/Mass Spectrometric) Analyses of Organic Compounds in Treated Kraft Paper Mill Wastewaters,
W77-00456 1001 5A

Fate of Selected Organic Compounds in the Discharge of Kraft Paper Mills into Lake Superior,
W77-00457 1001 5B

Persistent Organic Compounds from a Pulp Mill in a Near-Shore Freshwater Environment,
W77-00458 1001 5B

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

Don't Waste Waterweeds,
W77-00592 1002 5D

The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Investigation of Selected Potential Environmental Contaminants, Chlorinated Paraffins,
W77-01238 1003 5C

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

Hydrocarbon Determination in Waste Waters by Means of Channel Thin Layer Chromatography, (In Italian),
W77-01573 1004 5A

Researches on the Biodegradability and Toxicity of Some Pollutants Existing in Waste Waters Discharged by the Petrochemical Industry, (In Hungarian),
W77-01581 1004 5C

Photometric Determination of Isoprene and Neozone D in Water, (In Russian),
W77-01594 1004 5A

Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

Determination of Chemical Oxygen Demand (Die Bestimmung Der Chemischen Oxidierbarkeit),
W77-02380 1005 5A

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Organic Compounds in Pulp Mill Lagoon Discharge,
W77-02558 1005 5A

The Catalytic Wet Oxidation of Strong Waste Waters,
W77-02597 1006 5D

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Applications of Direct Aqueous Injection Gas Chromatography and Freeze Concentration for the Determination of Organic Compounds in Water and Waste Waters,
W77-02809 1006 5A

Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

Behavior of Hydrazine Compounds in Hard and Soft Water,
W77-03042 1006 5B

Hygienic Substantiation of the Maximum Permissible Concentration of Tin Tributylmethacrylate in Water Bodies, (In Russian),
W77-03107 1007 5A

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

Hygienic Standardization of the Content in Water of Monoisobutylamine and Diisobutylamine During their Combined Action, (In Russian),
W77-03481 1007 5B

Experimental Substantiation of the Maximal Permissible Concentrations of Triethanolamine, Ammonium and Calcium Salts of Alkylbenzosulfates in Water Bodies, (In Russian),
W77-03586 1007 5B

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Chlorinated Hydrocarbons in Coastal Marine Ecosystems,
W77-03661 1008 5C

Distribution of Low-Molecular-Weight Hydrocarbons in Southern Beaufort Sea,
W77-03793 1008 5B

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

Study on Hygienic Standardization of N-Butylamines in Water Bodies, (In Russian),
W77-04597 1009 5G

Sampling Device for Monitoring Biodegradation of Oil and Other Pollutants in Aquatic Environments,
W77-04801 1010 5B

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Sorption of Organic Impurities from Textile Industry Effluents on Ion-Exchangers (Sorpcja zanieczyszczen organicznych ze sciekow przemyslu wlokienniczego na jonitach),
W77-04819 1010 5D

Organic Leachate Threatens Groundwater Quality,
W77-04870 1010 5B

Hydrocarbons in the Ocean,
W77-05139 1011 5B

Treatment of Leachates from Sanitary Landfills,
W77-05331 1011 5D

Biodegradability of Organic Compounds,
W77-05483 1011 5B

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Removal of Organic Impurities from Industrial Waste Water - by Adsorption with Organo Silicon. Compound Modified with Alkaline Solution of Shungite,
W77-05513 1011 5D

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

A Potential Organic Disinfectant for Water Purification,
W77-06250 1013 5D

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Hydrocarbon Products Manufacture--By Carbonisation of Coal, Scrap Rubber or Plastic or Domestic Sewage Under Reduced Pressure.
W77-07000 1014 5D

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

Experimental Data for the Hygienic Standardization of Diphenylamine and Diphenyldiethylurea in Water Bodies, (In Russian),
W77-07700 1016 5G

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Extracellular Release in Planktonic Bacteria,
W77-07996 1016 5C

Process for Eliminating Reactive Chlorinated Organic Compounds from Aqueous Solutions,
W77-08021 1016 5D

Removing Explosives from Wastewater,
W77-08266 1017 5D

Ozone Effect of Synthetic Rubber Waste Treatment,
W77-08267 1017 5D

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

Experimental Data on the Regulation of 1,2-Dibromopropane in Reservoir Water, (In Russian),
W77-08718 1018 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-09492 1019 5C

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

Gas Stripping, Sorption, and Thermal Desorption Procedures for Preconcentrating Volatile Polar Water-Soluble Organics from Water Samples for Analysis by Gas Chromatography,
W77-09746 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Removal of Organic Residual Matter from Effluents with the Aid of Macroporous Adsorption Resins (Entfernung von organischen Reststoffen aus Abwaessern mit Hilfe von Makroporoesen Adsorberharzen),
W77-10617 1021 5D

Screening Method for Determination of the Degradability of Organic Complexing Agents (Screeningverfahren zur Feststellung der Abbaubarkeit organischer Komplexbildner),
W77-10644 1021 5A

Organic Compounds in Red Pine Kraft Bleaching Spent Liquor (In Japanese),
W77-10699 1021 5A

Sorption and Hydrolysis of Added Organic Phosphorus Compounds in Lake Sediments,
W77-10799 1021 5B

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Effects of Stable Chlorine-Containing Organics on Aquatic Environments,
W77-11503 1023 5C

Partitioning of Polycyclic Aromatic Hydrocarbons Between Dissolved and Particulate Phases in Natural Waters,
W77-11504 1023 5B

Organic Contaminants in Aqueous Coal Conversion Effluents: Environmental Consequences and Research Priorities,
W77-11647 1023 5C

Oxidizing Organic Refractory Cpds. in Waste Water - By Contact with Ozone Contg. Gas and Simultaneous UV Irradiation.
W77-11683 1023 5D

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Chlorine Dissipation and Toxicity Presence of Nitrogenous Compounds,
W77-12042 1023 5C

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

The Feeding Behavior of Mytilus edulis in the Presence of Methylmercury Acetate,
W77-12057 1023 5C

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

Accumulation and Elimination of Alpha-Hexachlorocyclohexane (Alpha-HCH) by the Marine Algae Chxlamydomonas and Dunaliella,
W77-12214 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

Fate of Polychlorinated Biphenyl (Aroclor 1242) in an Experimental Study and its Significance to the Natural Environment,
W77-12224 1023 5B

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

Use of Pyrolysis/Gas-Chromatography in Analyzing Low-Volatility Organic Water Pollutants (Die Anwendung der Pyrolyse-Gaschromatographie zur Analytik von schwerluechtigen organischen Wasserinhaltsstoffen),
W77-12363 1024 5A

Treatment of Aqueous Waste Streams.
W77-12458 1024 5D

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glycera Dibranchiata,
W77-12642 1024 5C

Stream Pollution by an Organomercury Compound,
W77-12644 1024 5B

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

Criteria Document for PCB's,
W77-12882 1024 5A

Waste Water Treatment Method,
W77-12948 1024 5D

ORGANIC CONTAMINANTS

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

ORGANIC ENRICHMENT

A Quantitative Study of the Invertebrate Fauna of the River Tees Below Cow Green Reservoir,
W77-12060 1023 5C

ORGANIC LEACHATE

Organic Leachate Threatens Groundwater Quality,
W77-04870 1010 5B

ORGANIC LOADING

Municipal Phosphorus Loadings to Lake Erie, an Evaluation Study Prepared for the Great Lakes Water Quality Board.
W77-00926 1002 5B

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Effects of High Organic Loading on Mixed Photosynthetic Waste Water Treatment,
W77-08540 1017 5D

Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

Effect of Residence Time on Fixed Film Reactor Performance,
W77-12427 1024 5D

ORGANIC MATTER

Respirometric Determination of BOD,
W77-00095 1001 5A

The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

Soil Organic Matter Fractions as Sources of Plant Available Sulphur,
W77-00310 1001 2G

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

Grown Organic Matter as a Fuel Raw Material Resource,
W77-00700 1002 3F

Organic Matter in Atmospheric Precipitation in the Voronezh Region, (In Russian),
W77-01249 1003 5B

Laboratory Research Methodology of Waste Water Treatability by Activated Sludge Process, (In Hungarian),
W77-01582 1004 5D

Chlorophyll Degradation Product in Sediments of Lake Tega-Numa, (In Japanese),
W77-01604 1004 5C

Interactions of Ferric and Ferrous Irons and Organic Matter in Water Environment,
W77-02389 1005 5B

Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

Nitrogen in Sedimented Organic Matter from Lake Ontario,
W77-02815 1006 5C

The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

Primary Production and Oxygen Budget in a Stream of the Central Pyrenees, (In French),
W77-02916 1006 5C

Investigations on the Role of Dissolved Organic Matter in Determining Ecosystem Structure and Function: The Plankton and Photoheterotrophy,
W77-03389 1007 5C

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

Concentration of Organic Substances in Water as a Factor Controlling the Occurrence of Some Ciliate Species,
W77-03839 1008 5C

Bacterial Assimilation of Organic Matter in Waters with Various Pollution Levels, (In Russian),
W77-04081 1008 5B

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

Oceanographic Observations in the Georgia Bight: Data Report for R.V. EASTWARD Cruises E-3-74 (24-30 April 1974) and E-12-74 (23-31 July 1974),
W77-04835 1010 2L

Determination of a Zone of Sanitary Protection of Surface Sources of a Centralized Water Supply, (In Russian),
W77-05203 1011 5G

Change of Organic Substances in Virgin and Arable Cinnamonic Calcareous Mountain Soils Depending on the Degree of their Erosion, (In Russian),
W77-05220 1011 2J

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

The Growth of Daphnia Magna in a Medium Enriched with Dissolved Organic Substances, (In Russian),
W77-05727 1012 5C

Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Invertebrates and Organic Matter Swept along during Spates, at the Inlet and Outlet of the Karstic System of Baget, (In French),
W77-06007 1012 5B

The Removal of Organic Matter from Water Supplies by Ion Exchange,
W77-06760 1014 5F

Characterization of Soluble Organic Matter in Leachate,
W77-07039 1014 5A

Advanced Waste Treatment Seminar, Session III, Removal of Solids and Organics, Held at San Francisco, on October 28-29, 1970.
W77-07074 1014 5D

Qualitative and Quantitative Studies on the Meiofauna of a Tropical Fresh Water Stream Subject to Tidal Influence, (In Italian),
W77-07390 1015 5C

Use of Quantitative Correlations Between Microorganisms for River Pollution Evaluation, (In Russian),
W77-07482 1015 5B

Factors Affecting Nitrification,
W77-07854 1016 5D

Organic Matter and Heavy Metal Uptake,
W77-07870 1016 5E

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

Effects of High Organic Loading on Mixed Photosynthetic Waste Water Treatment,
W77-08540 1017 5D

Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W77-09323 1019 5B

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

Occurrence of Oscillatoria Agardhii Gom. in Some Shallow Eutrophic Lakes,
W77-09525 1019 5C

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Chlorination Reactions of Fulvic Acids in Natural Waters,
W77-09741 1020 5F

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Organic Matter Removal by Powdered Activated Carbon Added to Activated Sludge,
W77-09850 1020 5D

Study of the Decomposition of Organic Matter by the Respirometric Dilution Method (Untersuchungen ueber das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verduennungsmethode),
W77-09888 1020 5D

Effect of Sorbed Organics on the Efficiency of Ammonia Removal by Chloramine-Carbon Surface Reactions,
W77-09902 1020 5D

Simulation of Plant Growth by Humic Substances,
W77-09963 1020 2I

Estimation of Components of Soil Cation Exchange Capacity from Measurements of Specific Surface and Organic Matter,
W77-09971 1020 2G

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

Phosphorus Sorption and Desorption Characteristics of Soil as Affected by Organic Residues,
W77-10275 1021 2G

Correlation of Plant Manganese with Extractable Soil Manganese and Soil Factors,
W77-10281 1021 2G

Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

The Biomass, Organic Matter Contents and Calorific Values of Macrophytes in the Lakes of the Szeszupa Drainage Area,
W77-11511 1023 5C

Organic Matter and Parathion Degradation in Flooded Soil,
W77-11561 1023 5B

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

Interaction of Climate, Organic Material and Stuctural Stability in Muddy Soils, (In French),
W77-12470 1024 2G

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

ORGANIC PESTICIDES

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Wasserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

ORGANIC PHOSPHORUS

Organic Phosphorus in Lakes,
W77-03210 1007 5C

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

ORGANIC POLLUTION INDICATORS

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

ORGANIC SOILS

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Methods for Analyzing the Hydrological Characteristics of Organic Soils in Marsh-Ridden Areas,
W77-06439 1013 2G

Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

ORGANIC SOLUTES

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

ORGANIC WASTE DISCHARGES

Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

ORGANIC WASTES

Engineering Study and Field Demonstration Trials for Sand Dune Stabilization,
W77-00032 1001 5E

Treatment of Aqueous Waste Solution,
W77-00694 1002 5D

Removal of Organics from Water,
W77-00924 1002 5D

Garbage Pollution, Disposal into Streams.
W77-00990 1002 6E

Waste Water Treatment,
W77-01217 1003 5D

Treatment of Condensates,
W77-01716 1004 5D

Dynamics of the Content of Some Organic Toxic Substances in Plants Irrigated with Effluents of the Coal-Tar Chemical Industry, (In Russian),
W77-02263 1005 5C

A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 1006 5C

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Concentration of Organic Substances in Water as a Factor Controlling the Occurrence of Some Ciliate Species,
W77-03839 1008 5C

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

Land Application of Waste Materials.
W77-04607 1010 5B

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Methane From Farm Wastes,
W77-04630 1010 5B

Wet Combustion of Organics,
W77-04957 1010 5D

Biodegradability of Organic Compounds,
W77-05483 1011 5B

Application of Biological Analysis in Investigations on Polluted Waters, (In Polish),
W77-05662 1012 5A

Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

Particle Characteristics and Dispersal Patterns of Sugar Cane Wastes in Selected Rivers and Estuaries of Puerto Rico,
W77-06632 1014 5B

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

Method of Purifying Waste Water,
W77-08881 1018 5D

Method for Purifying Water of Organic Compounds Not Readily Biodegradable,
W77-08883 1018 5D

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

Organic Chemicals Manufacturing Point Source Category, Proposed Effluent Guidelines and Standards.
W77-10472 1021 5G

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

Organic Contaminants in Aqueous Coal Conversion Effluents: Environmental Consequences and Research Priorities,
W77-11647 1023 5C

Waste Water Organic Residue Detoxification--By Two Stage Thermal Treatment and Separation at Specified Temp.
W77-11687 1023 5D

Treatment of Organic Waste Water by Tower Type Packed Biofilter (Jutento shiki rosho ho ni okeru kaibunshiki shori no joka sokudo),
W77-11715 1023 5D

Behavior of Benzidine and Other Aromatic Amines in Aerobic Wastewater Treatment,
W77-11733 1023 5B

Ultraviolet Light Enhances Ozonization of Organics Dissolved in Wastewater.
W77-11749 1023 5D

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Magnetic Separation of Soluble Organic Pollutants from Water,
W77-12255 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Waste Water Treatment Method,
W77-12948 1024 5D

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

Paying to Pollute.
W77-00972 1002 5G

ORGANISMS

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

ORGANIZATION CODES

Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

ORGANIZATIONS

Flash Floods in India,
W77-01943 1004 2E

ORGANIZATIONS

Identification Codes for Organizations Listed in Computerized Data Systems of the U.S. Geological Survey,
W77-04224 1009 7A

Institutions for Water Management in a Changing World,
W77-11466 1022 6E

ORGANO-METALLIC COMPLEXES
Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

ORGANOCHLORINE CHEMICALS
Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

ORGANOCHLORINE PESTICIDES
Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

ORGANOCHLORINE RESIDUES
Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

ORGANOCHLORINES
Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

ORGANOLEPTIC PROPERTIES
Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Removal Benefits: It Can Be Too Costly,
W77-02436 1005 5D

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Experimental Substantiation of the Maximum Allowable Concentration of Dimide in Water Bodies, (In Russian),
W77-02907 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Study on Hygienic Standardization of N-Butylamines in Water Bodies, (In Russian),
W77-04597 1009 5G

Barrier Function of Waterpipe Installations, (In Russian),
W77-05643 1012 5D

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

Hygienic Standardization of Disodium Salts of Meta-and Para-Diisopropylbenzene in Water Bodies, (In Russian),
W77-07590 1015 5C

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

Use of the Experimental Water Stabilization Station at the Novomyl'sk Water Intake in Rovno, (In Russian),
W77-12893 1024 8G

ORGANOMETALLIC COMPOUNDS
The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

ORGANOPHOS-PHOROUS PESTICIDES
Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

ORGANOPHOSPHOROUS COMPOUNDS
Neuromuscular Function and Acetylcholin-Esterase in the Pectoral Abductor Muscle of Large-Mouth Bass (Micropterus Salmoides) as Evidenced by the Effects of Diisopropyl-fluorophosphate,
W77-03028 1006 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Effects of Dietary Fenitrothion on Growth and Hierarchical Position of Brook Trout,
W77-11354 1022 5C

The Effect of Exposure to a Subacute Concentration of Parathion on the General Locomotor Behavior of the Goldfish,
W77-12648 1024 5C

ORGANOPHOSPHOROUS PESTICIDES
Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Effects of Dietary Fenitrothion on Growth and Hierarchical Position of Brook Trout,
W77-11354 1022 5C

ORGANOPHOSPHORUS COMPOUNDS
Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

ORGANOPHOSPHORUS PESTICIDES
Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

Change in the Proportion of Organophosphorus Compounds in Cotton Variety 'Tashkent-2' Under the Effect of a Moisture Deficit, (In Russian),
W77-01603 1004 3F

Behavior of Pathogenic and Sanitary-Indicator Bacteria Under Conditions of Water Pollution by Organophosphorus Pesticides, (In Russian),
W77-04099 1008 5C

Studies on the Japanese Chironimid Midges as a Nuisance: I. Larvicidal Effects of Some Organophosphorus Insecticides Against the Last Larvae of Chironomus Yoshimatsui Martin and Sublette, (In Japanese),
W77-04592 1009 5C

Design and Optimization of a Teflon Helix Continuous Liquid-Liquid Extraction Apparatus and its Application fo, the Analysis of Organophosphate Pesticides in Water,
W77-05680 1012 5A

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Degradation of Parathion in Seawater,
W77-09506 1019 5B

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

ORIFICE FLOW
How Accurate Are Shop-Made Orifice Plates,
W77-10782 1021 3F

ORIFICE PLATES
How Accurate Are Shop-Made Orifice Plates,
W77-10782 1021 3F

ORIFICES
Shunt Line Metering System for Irrigation Wells,
W77-01623 1004 8G

Effect of Openings on Inflow into Corrugated Drains,
W77-12305 1024 8B

OROGRAPHIC CLOUDS
Final Report on an Investigation of Precipitating Ice Crystals from Natural and Seeded Winter Orographic Clouds,
W77-00096 1001 3B

OROGRAPHIC RAINFALL
The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

OROGRAPHY
Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

ORTHO-XYLENE
The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

ORTHOCLADIINAE
Chironomid Fauna of the Upper Course of the Iseti River, (In Russian),
W77-09048 1018 5C

ORTHOPHOSPHATES
Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Reaction Products of Polyphosphates and Orthophosphates with Soils and Influence on Uptake of Phosphorus by Plants,
W77-03636 1008 3F

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

ORTSAND
Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

OSAKA BAY (JAPAN)
• The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

OSCILLATING SPRINKLERS
Oscillating Sprinkler,
W77-01745 1004 3F

OSCILLATION ICE STATES
Observation of Oscillatory Ice States in a Simple Convection Experiment,
W77-10656 1021 2C

OSCILLATIONS
Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

OSCILLATIONS (HARBORS)
Oscillations in Harbors Containing Islands,
W77-11046 1022 2L

OSCILLATORIA
Occurrence of Oscillatoria Agardhii Gom. in Some Shallow Eutrophic Lakes,
W77-09525 1019 5C

OSCILLATORIA REDEKEI
The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

Analysis of the Population Dynamics of Oscillatoria Redekei Van Goor in Lake Edeberg,
W77-09629 1020 5C

OSCILLATORY FLOW
Forces on a Rough Bed in Oscillatory Flow,
W77-00650 1002 2L

OSLOFJORD (NORWAY)
Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

OSMOREGULATION
Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Large Scale Mortality of Fish at St Lucia,
W77-10197 1021 2H

OSMOSIS
Osmosis Process for Producing Energy,
W77-01751 1004 3A

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Production of Energy From Concentrated Brines by Pressure-Retarded Osmosis, 1. Preliminary Technical and Economic Correlations,
W77-08233 1017 3A

Forward Osmosis Extractors,
W77-08340 1017 3A

OSMOTIC POTENTIAL
The Influences of Simulated Moisture Stress Conditions and Osmotic Substrates on Germination and Growth of Cultivated and Wild Safflowers,
W77-08460 1017 2I

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

OSMOTIC PRESSURE
Effect of Osmotic Suction on the Germination of Warm Season Grasses, (In Japanese),
W77-00422 1001 2I

Effect of Soil Water Suction on the Germination and Emergence of Warm Season Grasses, (In Japanese),
W77-00423 1001 2I

Osmosis Process for Producing Energy,
W77-01751 1004 3A

The Effect of NaCl on the Concentration of Proline in Different Halophytes, (In German),
W77-04912 1010 2I

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

The Influences of Simulated Moisture Stress Conditions and Osmotic Substrates on Germination and Growth of Cultivated and Wild Safflowers,
W77-08460 1017 2I

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

OSMOTIC REGULATION
Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls

(PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

OSMOTIC STRESS
Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

OSMOTIC SUCTION
Effect of Osmotic Suction on the Germination of Warm Season Grasses, (In Japanese),
W77-00422 1001 2I

OSMUNDA REGALIS
Chromosome Mutations in a Fern Population Growing in a Polluted Environment: A Bioassay for Mutagens in Aquatic Environments,
W77-08305 1017 5A

OSTRACODS
Seasonal Distribution of a Podocopid Ostracod in a Thermally Altered Area of Tampa Bay, Florida,
W77-05577 1011 5C

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

OSWEGO HARBOR (NY)
Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

OTTAWA RIVER
Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

OTTAWA RIVER (CANADA)
The Distribution and Transport of Bed Sediments and Persistent Pollutants in the Ottawa River, Canada,
W77-03645 1008 5B

Suspended Solids and Velocity Distributions in the Ottawa River,
W77-03655 1008 2J

Microbial Dealings with Heavy Metals,
W77-03666 1008 5C

Computer Modeling,
W77-03679 1008 5B

OTTAWA RIVER (ONT)
Interaction Between Aquatic Plants and Bed Sediments in Mercury Uptake from Flowing Water,
W77-00301 1001 5C

OTTAWA RIVER (ONTARIO)
Comparison of Primary Productivity (14C) per Unit Biomass Between Phytoplankton and Periphyton in the Ottawa River Near Ottawa, Canada,
W77-07454 1015 5C

OTTAWA RIVER PROJECT (CANADA)
The Ottawa River Project,
W77-03683 1008 5B

OTTAWA RIVER WATERSHED (OHIO)
Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

OTTAWA SAND
Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

OTTERS
Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

OTZTAL ALPS (AUSTRIA)
Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

OUT-OF-KILTER ALGORITHMS
The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

OUTBOARD ENGINES
Analysis of Emissions from Outboard Two Cycle Marine Engines,
W77-02823 1006 5B

OUTBOARD MARINE ENGINE WASTES
Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

OUTBOARD MOTOR EMISSIONS
Analysis of Pollution from Marine Engines and Effects on the Environment. Summary Report.
W77-02449 1005 5C

OUTDOOR RECREATION
Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

OUTER BANKS (NC)
Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

OUTER CONTIENTAL SHELF
Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

OUTER CONTINENTAL
Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

OUTER CONTINENTAL SHELF
Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

The Development of an Experimental Airborne Laser Oil Spill Remote Sensing System,
W77-00213 1001 5A

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

An Optimal Prevention and Detection Model for Pollution Patrol,
W77-00217 1001 5A

Oil Spill-Source Correlation by Gas Chromatography: An Experimental Evaluation of System Performance,
W77-00218 1001 5A

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

A Multiparameter Oil Pollution Source Identification System,
W77-00222 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Development of the 'Next Generation' Chemical Dispersants,
W77-00227 1001 5G

Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Development and Preliminary Design of a Sorbent Oil Recovery System,
W77-00232 1001 5G

Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Distribution of Heavy Hydrocarbons in some Atlantic Ocean Waters,
W77-00252 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Case Studies of the USN Supervisor of Salvage, Salvage Related Oil Pollution Incidents,
W77-00260 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Quantitative Evaluation of Mechanical Oil Spill Cleanup Devices,
W77-00263 1001 5G

Oil/Sorbent Harvesting Systems for use on Vessels of Opportunity,
W77-00264 1001 5G

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume II. Physical Oceanography and Meteorology.
W77-00911 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

The Arctic Coastal Environment of Alaska. Vol. II: A Compilation and Review of Scientific Literature of the Arctic Marine Environment,
W77-02665 1006 5C

Abstracts. Special Synposium - The Middle Atlantic Continental Shelf and New York Bight,
W77-02678 1006 5C

An Oilspill Risk Analysis for the North Atlantic Outer Continental Shelf Lease Area,
W77-02972 1006 5B

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Development of Hardware and Procedures for In-Situ Measurement of Creep in Sea Ice,
W77-03276 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Development of Fast Current Oil Response System,
W77-03904 1008 5G

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

The Present and Future of Coasts.
W77-04462 1009 2L

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Coastal Environmental Impact Assessment: Lessons from Oil Spills,
W77-04472 1009 6G

People and the Sea: Future Impacts and Opportunities,
W77-04474 1009 6G

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Potential Power-Generating Stations on the Atlantic Continental Shelf,
W77-04935 1010 6G

Nature of Potential Oil Industry Operations on the Atlantic Continental Shelf,
W77-04936 1010 6G

Wind-Driven and Thermohaline Circulation Over the Continental Shelves,
W77-04937 1010 6G

Tidal Water Movements,
W77-04938 1010 2L

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04942 1010 5C

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

Fisheries and Renewable Resources of the Northwest Atlantic Shelf,
W77-04945 1010 6G

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Oil Spill and Oil Pollution Reports August 1975 - October 1975,
W77-05023 1010 5B

Oil Spill and Oil Pollution Reports May 1975 - July 1975,
W77-05024 1010 5B

Oil Spill and Oil Pollution Reports November 1975 - January 1976,
W77-05025 1010 5B

Oil Spill and Oil Pollution Reports February 1976 - April 1976,
W77-05026 1010 5B

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Market Demand and General Location Options,
W77-05378 1011 6D

Process Description and Adaptation Study,
W77-05379 1011 5G

Civil Engineering Considerations,
W77-05380 1011 8A

Environmental Assessment,
W77-05381 1011 6G

Legal/Political Aspects,
W77-05382 1011 6E

Marine Pollution Research Titles.
W77-05383 1011 5A

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Ecology and Behavior of Southern Hemisphere Shearwaters (Genus Puffinus) and Other Seabirds, When Over the Outer Continental Shelf of the Bering Sea and Gulf of Alaska During the Northern Summer,
W77-06814 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines.
W77-06850 1014 5A

Program Development Plan. Environmental Assessment of the Alaskan Continental Shelf,
W77-06878 1014 6G

State Information Needs Related to Onshore and Nearshore Effects of OCS Petroleum Development,
W77-06934 1014 6G

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

An Analytical Sea Current Model for Coastal Regions with Application to the New York Bight,
W77-07744 1016 2L

States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
W77-08365 1017 6E

A Conceptual Representation of the New York Bight Ecosystem,
W77-08900 1018 5B

Identification of Weathered Oil Films Found in the Marine Environment,
W77-08901 1018 5A

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

The Environmental Quality Monitoring Report.
W77-09231 1019 5G

Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

NOAA Ship Delaware II Cruise 74-2 Report of May 13-21, 1974, Survey of Deepwater Dumpsite 106,
W77-09245 1019 5B

Investigation of Radioactive Waste Disposal at Deepwater Dumpsite 106--Sampling Program May 1974,
W77-09246 1019 5B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Physical Oceanography Historical Data for Deepwater Dumpsite 106,
W77-09248 1019 5B

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Preliminary Investigation of Benthic Resources at Deepwater Dumpsite 106,
W77-09252 1019 5C

Archibenthic and Abyssobenthic Fishes of Deepwater Dumpsite 106 and the Adjacent Area,
W77-09253 1019 5C

An Analysis of Plankton from Deepwater Dumpsite 106,
W77-09254 1019 5C

Systematic Analysis of Midwater Fishes Obtained at Deepwater Dumpsite 106 May 1974,
W77-09255 1019 5C

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

The Georgia Coastal Environment. A Compilation of Resource Materials Covering the Coastal Plain, Estuaries and Offshore Waters.
W77-10025 1020 2L

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

Techniques for Measuring Stress in Sea Ice,
W77-10507 1021 2C

Redesign, Fabrication and Test of a 1000-GPM High Seas Oil Recovery System and Design Only of a 500-GPM High Seas Oil Recovery System,
W77-10879 1022 5G

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10883 1022 5G

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Suspended Sediment in the Littoral Zone at Ventnor, New Jersey, and Nags Head, North Carolina,
W77-10888 1022 2L

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Introduction: Rationale, Objectives and Logistics,
W77-10894 1022 2L

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Aspects of Size Distributions, Mineralogy and Geochemistry of Deltaic and Adjacent Shallow Marine Sediments, North Arctic Alaska,
W77-10897 1022 2L

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

Seasonal Variation in the Nutrient Chemistry and Conservative Constituents in Coastal Alaskan Beaufort Sea Waters,
W77-10899 1022 2L

Studies of Primary Productivity and Phytoplankton Organisms in the Colville River System,
W77-10900 1022 5C

The Nearshore Benthos,
W77-10901 1022 2L

Colville River Delta Fisheries Research,
W77-10902 1022 2L

A Summary of Observations of Birds at Oliktok Point and Notes on Birds Observed Along the Colville River--Summer 1971,
W77-10903 1022 2L

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Environmental Considerations of the Oil and Gas Production Industry in the Coastal Zone,
W77-11032 1022 5G

Field Studies on Marine Life Inhabiting Areas of Chronic Low Level Exposure to Petroleum,
W77-11033 1022 5C

Oil in Southern California Marshes,
W77-11034 1022 5C

Impact of the Marsh Buggy on the Wetlands,
W77-11035 1022 4C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

Erosion Defense Structures on the Puget Sound Shoreline,
W77-11038 1022 4D

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

Human Induced Stress on the Caucasian Coast of the Black Sea,
W77-11040 1022 4D

Shoreline Protection in Japan,
W77-11041 1022 4D

Problems in the Adoption of New Ideas and Practices,
W77-11042 1022 6B

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

VLCC 'METULA' Oil Spill,
W77-11889 1023 5G

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

A Shipboard Oil-in-Water Content Monitor Based on Oil Fluorescence,
W77-11905 1023 5A

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

Development of a High Seas Oil Recovery System, Phase II Prototype Design, Fabrication, and Testing,
W77-12146 1023 5G

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

OUTER CONTINENTL SHELF
Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

OUTFALL FAUNA
Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

OUTFALL JET PLUME
The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

OUTFALL SEWERS
Floods, A Fissure and a Perfect Holing.
W77-01470 1003 8E

The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges.
W77-01806 1004 5A

Characterization and Treatment of Combined Sewer Overflows,
W77-04644 1010 5D

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Inventory of Benthic Organisms and Plankton at Mokapu, Oahu,
W77-07798 1016 2L

Go Ahead for Long Sea Outfall.
W77-09836 1020 5D

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

OUTFALLS
Go Ahead for Drainage and Outfall,
W77-07889 1016 5E

A Second Look at Water Reuse,
W77-07908 1016 5D

New Plymouth Sewerage Scheme,
W77-08632 1018 5D

Impact on Marine Benthos of Waste Water Discharge,
W77-09846 1020 5C

Advance Sewer Planning for Rio de Janeiro Coastline,
W77-09890 1020 5D

Effluent Treatment Versus Disposal Through Long Sea Outfalls,
W77-09895 1020 5E

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

OUTLET WORKS
Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

OUTLET WORKS

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

OUTLETS

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

The Design and Construction of a Screening and Pumping Station and an Outfall for the Disposal of Sewage from Brighton and Hove,
W77-02331 1005 5E

Dilution and Design,
W77-02332 1005 5E

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

OUTMIGRATION DELAY

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

OVERBURDEN

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

New Technology: New Eccentric Drill Bit.
W77-12677 1024 8G

OVERBURDEN POTENTIAL THEORY

The Application of the Overburden Potential Theory to Swelling Soils,
W77-05167 1011 2G

OVERDRAFT

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

A Postscript to the Mutual Prescription Doctrine--City of Los Angeles V City of San Fernando,
W77-08490 1017 6E

OVERFLOW

Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

Some Aspects of Municipal Overflow Reservoir Monitoring, (In Swedish),
W77-02228 1005 5A

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Automatic Clarity Control of Overflow from Sedimentation Tank-With Sludge Pump Actuated by Photo-Electric Check of Sample Liquid.
W77-04668 1010 5D

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

Sources of Gas Supersaturation in Water,
W77-06100 1012 5B

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

Single P/C Unit Removal of Nutrients from Combined Sewer Overflows,
W77-07031 1014 5D

Treatment of Combined Sewer Overflows Via Thin Film Chemistry,
W77-07034 1014 5D

Nuckolls V Louisiana State Highway Department (Liability for Unauthorized Alteration of Natural Drain),
W77-07277 1015 6E

Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09[illegible]25 1020 5D

Nationwide Evaluation of Combined Sewer Overflows and Urban Stormwater Discharges. Volume II: Cost Assessment and Impacts,
W77-09874 1020 5D

Treatment of Combined Sewer Overflows,
W77-10542 1021 5D

Combined Sewer Overflows,
W77-10543 1021 5D

Program Hopes to Reduce Pollution from Sewer Overflow.
W77-10547 1021 5B

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

Countermeasures for Pollution from Overflows; The State of the Art,
W77-12497 1024 5G

Detention Tank for Combined Sewer Overflow, Milwaukee, Wisconsin, Demonstration Project.
W77-12824 1024 5D

OVERFLOWS

Urban Runoff Pollution Control--Technology Overview,
W77-09823 1020 5D

Demonstration of Void Space Storage with Treatment and Flow Regulation.
W77-10532 1021 5F

OVERGRAZING

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

OVERLAND FLOW

The Nonpoint Source Pollutant Loading (NPS) Model,
W77-00617 1002 5B

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

Hydraulic Simulation Using Distributed Parameters,
W77-03001 1006 2A

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

An Experimental Investigation of the Rainfall on the Turbulence Properties of Overland Flow,
W77-04177 1009 2E

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

A Distributed Converging Overland Flow Model 1. Mathematical Solutions,
W77-04744 1010 2E

A Distributed Converging Overland Flow Model 2. Effect of Infiltration,
W77-04745 1010 2A

Overland-Flow Travel Time Versus Reynolds Number,
W77-05149 1011 2E

A Distributed Converging Overland Flow Model 3. Application to Natural Watersheds,
W77-05168 1011 2E

Manning N and the Overland Flow Equation,
W77-07371 1015 2E

Runoff, Erosion, and Nutrient Movement from Interrill Areas,
W77-07766 1016 2J

Representative and Experimental Basins - Where Next,
W77-07781 1016 2A

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

An Overland Flow - Lagoon Recycle System as a Pretreatment of Poultry Wastes,
W77-09148 1019 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Simulating Overland Flow in Border Irrigation,
W77-10170 1021 3F

Simulating Overland Flow on Hillslopes with a Kinematic Cascade,
W77-12108 1023 2A

OVERPOPULATION

Carrying Capacity Prototype Investigations in the State of Hawaii, Summary Report,
W77-00917 1002 6G

OWASE BAY (JAPAN)

Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

OWNERSHIP
Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

OWNERSHIP OF BEDS
Ownership on Navigable Waterbottoms--California Company V Price Revisited,
W77-01078 1003 6E

Tidal Boundaries in Florida,
W77-01093 1003 6E

Public Lands (Preference Rights Established for Acquisition of Tidelands and Submerged Lands).
W77-01106 1003 6E

Artificial and Natural Lakes,
W77-03694 1008 6E

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

Louisiana Tidelands Past and Future,
W77-04350 1009 6E

United States V State of Florida (Determining Federal Versus State's Rights in Lands, Minerals and Resources Underlying the Atlantic Ocean and Gulf of Mexico),
W77-06076 1012 6E

Navigable Waters (Aquisition, Title and Conveyance).
W77-06083 1012 6E

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

The Navigability Concept in the Civil and Common Law: Historical Development, Current Importance, and Some Doctrines That Don't Hold Water,
W77-06553 1013 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

United States V Holmes (Waters and Subaqueous Areas Located Within Perimeters of a Military Post),
W77-09008 1018 6E

Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
W77-10448 1021 6E

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

Atlantic City Electric Company v Bardin (State's Right to Grant and Set Consideration for Lands Held in Public Trust).
W77-11186 1022 6E

OWYHEE DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

OXBOW DAM
Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

OXBOW LAKE SYMMETRY
Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

OXBOW LAKES
Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

OXIDATION
Evaluation of Activated Sludge Control Techniques Through Pilot Plant and Computer Analyses,
W77-00157 1001 5D

Process for Treating Waste Water (Verfahren zur Behandlung von Abwasser),
W77-00343 1001 5D

Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

Precision Aquarator Speeds COD Determination,
W77-00605 1002 5A

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Removing Iron from Acid Waste Liquids by Oxidation - at Controlled PH by Addition of Base, Giving Easily Separated Precipitation for Large-Scale Use.
W77-00761 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Determination of Chemical Oxygen Demand (Die Bestimmung Der Chemischen Oxidierbarkeit),
W77-02380 1005 5A

The Catalytic Wet Oxidation of Strong Waste Waters,
W77-02597 1006 5D

The Rate of Microbiological Oxidation of Methane Determined with the Aid of Labeled (Carbon-14) Methane, (In Russian),
W77-02962 1006 5B

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Decontamination of Water Contaminated with Polycyclic Aromatic Hydrocarbons (PAH). I. Action of Chlorine and Ozone on PAH Dissolved in Doubly Distilled and in De-Ionized Water,
W77-03369 1007 5D

The Influence of Carbon-Nitrogen Ratio on the Chlorination of Microbial Aggregates,
W77-03414 1007 5D

Wet Oxidation of Clarification Sludge and Pulp Effluent by the Zimpro Process (Nassoxydation von Klaerschlamm und Zellstoffablauge mit dem Zimpro-Verfahren),
W77-03823 1008 5D

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Biochemical Reactor Analysis,
W77-05334 1011 5D

Polluted Water Purification,
W77-06110 1013 5D

Purification Plants of the Carrousel Type for the Purification of Communal, Trade and Industrial Waste Water (Klaeranlagen vom Typ Carrousel fuer die Reinigung Kommunaler, Gewerblicher und Industrieller Abwaesser),
W77-06124 1013 5D

Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

Factors Involved in Biochemical Oxidation of Sewage,
W77-06157 1013 5D

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Oxidation and Ozonation Chamber,
W77-06999 1014 5D

Waste Treatment Apparatus,
W77-07005 1014 5D

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

Waste Treatment Process,
W77-07091 1014 5D

Ozone Oxidation of Waste Water,
W77-07094 1014 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Purifying Waste Liquor Containing Sulphide, Sulphite and Thiosulphate-Alkaline Oxidation Followed by Acid Oxidation, Using Oxygen.
W77-07226 1015 5D

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Biological Phosphate Elimination of Preliminarily Cleaned Communal Waste Water by Use of Iron Bacteria (Biologische Entphosphatung vorgereinigten kommunalen Abwassers unter Mitwirkung von Eisenbakterian),
W77-07856 1016 5D

Physico-Chemical Treatment of Sewage and the Coleshill Project,
W77-07922 1016 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Polluted Water Purification,
W77-08890 1018 5D

Alternative Methods of Phenol Wastewater Control,
W77-09419 1019 5D

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Methane Oxidation in a Eutrophic Canadian Shield Lake,
W77-09608 1020 5C

Disinfection of Waste Water by Photodynamic Oxidation,
W77-09852 1020 5D

Oxxidation Ditch Gives Low-Cost Secondary Treatment.
W77-09866 1020 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

Destruction of Coliforms in Water and Sewage Water by Dye-Sensitized Photooxidation,
W77-10618 1021 5D

Physical and Chemical Methods,
W77-10645 1021 5D

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Studies on Disinfection and Chemical Oxidation with Ozone and Chlorine in Water Reclamation,
W77-11572 1023 5F

Water Treatment Using Oxidised Sludge.
W77-11677 1023 5D

Non-Biodegradable Waste Water Treatment - By Wet Oxidn. Followed by Biological Aeration in Presence of Active Carbon.
W77-11680 1023 5D

Oxidizing Organic Refractory Cpds. in Waste Water - By Contact with Ozone Contg. Gas and Simultaneous UV Irradiation.
W77-11683 1023 5D

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Thermal Conditioning with Air.
W77-11696 1023 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Waste Water Aerating and Clarifying Tank-Has Perforated Plate for Circulation Between Aeration and Clarification Zones.
W77-12456 1024 5D

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

OXIDATION DITCHES

History and Development of the Oxidation Ditch,
W77-08587 1017 5D

OXIDATION LAGOONS

Sanitary-Bacteriological Evaluation of the Method of Treatment at a Small Sewage Plant, (In Russian),
W77-00350 1001 5D

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

Toxicity of Ammonia to Algae in Sewage Oxidation Ponds,
W77-03413 1007 5D

Purification Plants of the Carrousel Type for the Purification of Communal, Trade and Industrial Waste Water (Klaeranlagen vom Typ Carrousel fuer die Reinigung Kommunaler, Gewerblicher und Industrieller Abwaesser),
W77-06124 1013 5D

Algae Separation from Oxidation Pond Effluents,
W77-06184 1013 5D

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

Stabilisation Lagoons Including Experience in Brazil. Part 1,
W77-07063 1014 5D

Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

History and Development of the Oxidation Ditch,
W77-08587 1017 5D

Plant Capacity to Increase,
W77-08597 1017 5D

Design Parameters for Animal Waste Treatment Systems - Nitrogen Control,
W77-09393 1019 5D

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Rapid Sand Filtration for Best Practical Treatment of Domestic Waste Water Stabilization Pond Effluent,
W77-09853 1020 5D

Oxxidation Ditch Gives Low-Cost Secondary Treatment.
W77-09866 1020 5D

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

Control of Algae in Lakes, Lagoons and Small Reservoirs with Biogrowth Partitions,
W77-10268 1021 5G

Lagoons and Oxidation Ponds, (Literature Review),
W77-11714 1023 5D

Laboratory Studies of Upgrading Effluent Water Quality from Sewage Lagoons,
W77-11793 1023 5D

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

OXIDATION LAGOONS EFFLUENTS

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

OXIDATION REDUCTION POTENTIAL

A New Technique for Rapid and Continuous Measurement of Redox Potentials,
W77-00299 1001 2G

Effect of Alternate Aerobic and Anaerobic Conditions on Redox Potential, Organic Matter Decomposition and Nitrogen Loss in a Flooded Soil,
W77-00306 1001 5B

Formation of Chemical and Biological Denitrification Products in Flooded Soil at Controlled pH and Redox Potential,
W77-00308 1001 2G

The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

Electron Transport Analysis as an Indicator of Biological Oxidation in Freshwater Sediments,
W77-07992 1016 5C

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp,
W77-09286 1019 5C

Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

Experimental Equipment for Cultivation of Activated Sludge Under Conditions of Constant Oxidation Potential (Eksperimental'naya ustanovka dlya kul'tivirovaniya aktivnogo ila v usloviyakh postoyanstva okislitel'nogo potentsiala),
W77-12357 1024 5D

OXIDES

* Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Meteorological Factors and Air Pollution in Sofia, (In Russian),
W77-01601 1004 5A

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

OXIDIZING AGENTS

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

OXISOL

Nitrogen Removal from Secondary Effluent by a Laboratory Soil Column,
W77-08607 1018 5B

OXWICH BAY (WALES)

The Effect of Coastal Hydrodynamics on the Echinoderm Distribution in the Sublittoral of Oxwich Bay, Bristol Channel,
W77-09944 1020 2L

OXYGEN

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Effects of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariphyceae). II. Effect of Oxygen,
W77-00721 1002 5C

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Combined Effects of Low Oxygen and Salinity on Germination of a Semi-Dwarf Mexican Wheat,
W77-03068 1006 3C

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Oxygen and Air Activated Sludge: Another View,
W77-03444 1007 5D

Effect of High Dissolved Oxygen Concentration in Activated Sludge Systems,
W77-03571 1007 5D

Oxygen Transfer in a 23-Meter Bubble Column,
W77-03579 1007 5D

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

Effects of Reduced Oxygen on Embryos and Larvae of the White Sucker, Coho Salmon, Brook Trout, and Walleye,
W77-04547 1009 5C

Diffusion Coefficient of Oxygen in Microbial Aggregates,
W77-04689 1010 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

Remarks on the Short Term Variability of the Parameters Relating to the Nutrient and Oxygen Balance During the Synoptic Investigation of Shallow Inlets During 1972, (In German),
W77-05159 1011 5A

Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Factors Involved in Biochemical Oxidation of Sewage,
W77-06157 1013 5D

Waste Water Treatment. Aeration of Waste Water by Oxygen.
W77-06203 1013 5D

The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

The Purification of Highly Polluted Waste in a Test Plant, Using Pure Oxygen,
W77-06205 1013 5D

Biological Purification of Waste Water, Using Oxygen,
W77-06206 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

The Effect of High Purity Oxygen on the Activated Sludge Process,
W77-07043 1014 5D

An Oxygen-Isotope Climatic Record from the Devon Island Ice Cap, Arctic Canada,
W77-07175 1015 2C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Dynamics of O2 and CO2 Exchange, Photosynthesis, and Respiration in Rivers from Time-Delayed Correlations with Ideal Sunlight,
W77-07364 1015 5C

Interaction of Temperature and Salinity on Oxygen Consumption of the Estuarine Crab Panopeus Herbstii,
W77-07375 1015 5C

The Influence of Temperature and Time of Year on the Oxygen Uptake of the Sea Mussel Mytilus Edulis,
W77-07383 1015 5C

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Air V. Oxygen in Dorset,
W77-07910 1016 5D

What's Up with Oxygen,
W77-07919 1016 5D

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Oxygen Aeration at Newton Creek,
W77-08526 1017 5D

Aerobic Treatment of Liquid Wastes--With Oxygen Concentration Measured and Used to Control Pump Speed Used to Force Liquid Through Venturis.
W77-08557 1017 5D

BOC Blows Bubbles in Dirty Bath Water,
W77-08564 1017 5D

Pre-Treatment in the Sewer,
W77-08596 1017 5D

Plant Capacity to Increase,
W77-08597 1017 5D

What's Up with Oxygen/2,
W77-08627 1018 5D

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

Waste Purification Process.
W77-09865 1020 5D

Apparatus for the Automatic Determination of Oxygen Consumption in Fish,
W77-10217 1021 5A

Oxygenation of Aqueous Wastes: The PROST System,
W77-10608 1021 5D

Purification of Pulp Mill Effluents by the Activated Sludge Method Using Pure Oxygen (Wyniki badan oczyszczania sciekow celulozowych metoda osadu czynnego z uzyciem czystego tlenu),
W77-10716 1021 5D

Growth and Mineral Composition of Rice at Various Soil Moisture Tensions and Oxygen Levels,
W77-11950 1023 3F

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton, II. Effect of Oxygen Saturation on the Respiration Rate,
W77-12784 1024 5C

OXYGEN-18

Thermal and Isotopic Studies on the Crater Lakes of Monticchio (Lucania, Italy), (In Italian),
W77-07392 1015 2H

OXYGEN ACTIVATED SLUDGE

The Oxygen-Activated Sludge Process – Theory and Practice,
W77-06119 1013 5D

The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

The Purification of Highly Polluted Waste in a Test Plant, Using Pure Oxygen,
W77-06205 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

OXYGEN BLEACHING

Investigations of Effluent Characteristics from Conventional and Oxygen Bleaching Sequences: Results of Laboratory Studies,
W77-02563 1005 5D

OXYGEN COMPOUNDS

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

OXYGEN CONSUMPTION

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Oxygen Consumption by Freshwater Sediments,
W77-09348 1019 5C

OXYGEN CONSUMPTION (NIAIDS)

A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

OXYGEN CONSUMPTION RATES

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

OXYGEN DEMAND

Respirometric Determination of BOD,
W77-00095 1001 5A

The Sediments of Lake George (Uganda). I: Redox Potentials, Oxygen Consumption and Carbon Dioxide Output,
W77-00712 1002 5C

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Computer Program for Presenting Actual Lake Data, (In German),
W77-04585 1009 7C

Study of the Oxygen Demand in Biological Waste Water Treatment and Incineration Processes (Valutazione dell'02 consumato nei processi biologici di trattamento acque nei processai di incenerimento),
W77-06155 1013 5D

Algae Separation from Oxidation Pond Effluents,
W77-06184 1013 5D

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

A Study on the Strength of Sewage,
W77-07853 1016 5B

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

Oxygen Consumption by Freshwater Sediments,
W77-09348 1019 5C

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

A Field and Laboratory Study of Oxygen Uptake by Planktonic Blue-Green Algae,
W77-10154 1021 5C

Problems Related to Water Quality Over the Danube Section Between Rajka and Esztergom (A Rajka-Esztergom kozotti Duna-szakasz vizminosegi problemai),
W77-11738 1023 5B

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Effects of Tow Traffic on the Resuspension of Sediments and on Dissolved Oxygen Concentrations in the Illinois and Upper Mississippi Rivers Under Normal Pool Conditions,
W77-12331 1024 5C

The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton, II. Effect of Oxygen Saturation on the Respiration Rate,
W77-12784 1024 5C

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

OXYGEN DEMANDS

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

OXYGEN DEPLETION

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

OXYGEN DIFFUSION RATE (SOILS)

Relationship Between Potato Yield and Oxygen Diffusion Rate of Subsoil,
W77-11963 1023 3F

OXYGEN EVOLUTION

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

OXYGEN INJECTION

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

OXYGEN INJECTION SYSTEM

Oxygen Injection Blows New Life Into Drought Hit Sewage Treatment Works,
W77-11702 1023 5D

OXYGEN ISOTOPES

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Geothermal Investigations in Idaho, Part 4, Isotopic and Geochemical Analses of Water from the Bruneau-Grand View and Weiser areas, Southwest Idaho,
W77-03896 1008 1A

Thermal and Isotopic Studies on the Crater Lakes of Monticchio (Lucania, Italy), (In Italian),
W77-07392 1015 2H

OXYGEN LEVEL FLUCTUATIONS

Minimum Oxygen Levels Survived by Stream Invertebrates,
W77-08926 1018 5C

OXYGEN METABOLISM

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III. Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

OXYGEN MINIMUM LAYER

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

OXYGEN-NITROGEN RATIO

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

OXYGEN-NITROGEN RATIOS

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

OXYGEN-NITROGEN RELATIONSHIP

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

OXYGEN-NITROGEN VALUE

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

OXYGEN REQUIREMENT

Physiological and Behavioral Responses to Hypoxia and Hydrogen Sulfide in the Infaunal Asteroid Ctenodiscus Crispatus,
W77-06288 1013 5C

OXYGEN REQUIREMENTS

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

The General Character of the Water of the Middle of the Saale River, (In German),
W77-02910 1006 5B

Methods of Balancing and Calculating the O2 Balance of the Middle Course of the Saale River, (In German),
W77-02911 1006 5A

Combined Effects of Low Oxygen and Salinity on Germination of a Semi-Dwarf Mexican Wheat,
W77-03068 1006 3C

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

Influence of Oxygen Tension on Metabolic Rate of Macrobenthos Species of Western Baltic and Kattegat, (In German),
W77-06274 1013 5C

Survival Rate and Oxygen Consumption of Juvenile Wild Carp Maintained Under Different Conditions,
W77-06467 1013 5C

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

Oxygen Consumption, Ventilatory Frequency and Heart Rate of Lampreys (Lampetra Fluviatilis) During Their Spawning Run,
W77-07399 1015 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. III.

Changes in Osmoregulation and Oxygen Consumption,
W77-07833 1016 5C

Oxygen Consumption by Freshwater Sediments,
W77-09348 1019 5C

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Oxygen Injection Blows New Life Into Drought Hit Sewage Treatment Works,
W77-11702 1023 5D

Variations in Nitrogen and Organics in Wastewaters,
W77-11735 1023 5D

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton, II. Effect of Oxygen Saturation on the Respiration Rate,
W77-12784 1024 5C

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

OXYGEN SAG

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

The Vertical Distribution of Plankton Rotifers in a Small Alpine Lake with a Sharp Oxygen Depletion (Lunzer Obersee),
W77-07456 1015 5C

Oxygen-Sag in a Tidal River,
W77-10114 1021 5B

OXYGEN SATURATION

The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton, II. Effect of Oxygen Saturation on the Respiration Rate,
W77-12784 1024 5C

OXYGEN SATURATION CURVES

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

OXYGEN SECRETION

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

OXYGEN SOLUBILITIES

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

OXYGEN STRATIFICATION

Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

OXYGEN SUPERSATURATION

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

OXYGEN TENSION

Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

OXYGEN TRANSFER

Investigation of Oxygen Transfer to Slime as a Surface Reaction,
W77-03476 1007 5B

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Thurrock Test-Bed for ICI Deep Shaft,
W77-09859 1020 5D

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

OXYGEN UPTAKE

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

OXYGEN UPTAKE GRADIENTS

A Field and Laboratory Study of Oxygen Uptake by Planktonic Blue-Green Algae,
W77-10154 1021 5C

OXYGEN UTILIZATION

Tall Order in Waste Treatment,
W77-03602 1008 5D

OXYGENATION

Oxygen for Effluent Treatment.
W77-00060 1001 5D

Double Funnel Device for Oxygenating Sewage,
W77-00565 1002 5D

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

On Spent Liquor of Semichemical Pulping (V). Improvement of the Color Removal Efficiency by the Photochemical Treatment (SCP haieki ni tsuite (V). Shigaisen shori ni okeru shosha koritsu no kojo),
W77-02008 1004 5D

Open Tank Pure Oxygen System Begins Operation,
W77-02359 1005 5D

Efficiency of Diffused Aeration Systems in Wastewater Treatment,
W77-02362 1005 5D

An Economic Evaluation of Deep Tank Aeration for Wastewater Treatment,
W77-03580 1007 5D

Treatment of Troublesome Odors from the Fermentation of Antibiotics (Abbattimento Di Odori Molesti Provenienti Dalla Fermentazione Di Antibiotici),
W77-03603 1008 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

Waste Treatment Advances: The Unox Process,
W77-05686 1012 5D

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Oxygen Addn. Regulation in Water and Sewage Purifcn.--Using Ejectors to Secure Intimate Contact with Activated Sludge,
W77-07893 1016 5D

Air V. Oxygen in Dorset,
W77-07910 1016 5D

Use of Oxygen in Activated Sludge Plants (Utilizzazione dell'ossigeno allo stato puro negli impianti a fanghi attivi),
W77-08545 1017 5D

Oxygen System Activated Sludge Process.
W77-08575 1017 5D

Prospects Strong for Waste Water Oxygenation,
W77-08578 1017 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

History and Development of the Oxidation Ditch,
W77-08587 1017 5D

Oxygen Injection for Bath's Sewers,
W77-08599 1017 5D

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

Oxygenation of Aqueous Wastes: The PROST System,
W77-10608 1021 5D

Air Blowers for Sewage and Water Treatment.
W77-11697 1023 5F

Current Sludge Research at the WRC,
W77-11741 1023 5E

Oxygen Consumption by Sphaerium Simile,
W77-12009 1023 5C

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

OYSTER GROWTH

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

OYSTER SEED BEDS

Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

OYSTER SPAT

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

OYSTERS

Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

On the Oceanographic Conditions of Oyster Farming Area Near Chungmu, (In Korean),
W77-00498 1001 2L

Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

Relationship of Vibrio Parahaemolyticus in Oysters, Water, Sediment, and Bacteriological and Environmental Indices,
W77-00877 1002 5C

Marine Resources Commission--Oyster Grounds--Use of Subaqueous Lands for Construction and Maintenance of Sewage Disposal Facilities.
W77-01015 1002 6E

Legal Considerations Concerning Oyster Cultivation in Florida,
W77-01092 1003 6E

Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

Barataria Basin: Salinity Changes and Oyster Distribution,
W77-02884 1006 5C

Rehabilitation of Pamlico Sound Oyster Producing Grounds Damaged or Destroyed by Hurricane Ginger,
W77-03562 1007 6B

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

The Feasibility of Oyster Raft Culture in East Coast Estuaries,
W77-04559 1009 2L

Effects of a Thermal Effluent on the Reproduction of the American Oyster,
W77-05549 1011 5C

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Day Degree Growth Models for Intertidal Oysters,
W77-07376 1015 2L

Reduction in Sewage Contamination in Sydney Rock Oysters,
W77-07946 1016 5G

Partial Analysis of the Microplankton in the Lagoon of Pueblo Viejo, State of Vera Cruz, Mexico, (In Spanish),
W77-10066 1020 2L

Dehydration of Marine Zoological Material - Volatility of Metabolised Selenium at 105-120C,
W77-10095 1020 5A

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

Aquaculture,
W77-11665 1023 5G

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

First Observations on the Introduction of the Fauna Associated with the Japanese Oyster Spat Crassostrea Gigas (Thunberg), Imported on the Atlantic Coast of France, (In French),
W77-12296 1024 2L

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

OZONATION

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Ozonation of Ammonia in Wastewater,
W77-00553 1002 5D

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Comparative Assessment of the Effectiveness of Certain Methods Making Industrial Effluents Noncarcinogenic, (In Russian),
W77-03488 1007 5D

Water Ozonation in Fish Culture, (In German),
W77-04591 1009 5F

Oxidation and Ozonation Chamber,
W77-06999 1014 5D

Ozonation in a Better Perspective,
W77-07293 1015 5D

Studies on Disinfection and Chemical Oxidation with Ozone and Chlorine in Water Reclamation,
W77-11572 1023 5F

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

OZONATION PLANTS

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

OZONE
Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Bleachability of Softwood and Hardwood Kraft Pulps in Ozone Bleaching (In Japanese),
W77-00330 1001 5D

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Ozonation of Ammonia in Wastewater,
W77-00553 1002 5D

Use of Ozone in a Combined System for the Purification of Kraft Mill Effluents (Primenenie ozona v kombinirovannoi sisteme glubokoi ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-01656 1004 5D

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Ozone and Vascular Tissue Differentiation in Plants,
W77-02439 1005 5C

Ozone Removal from Arc Lamp Cooling Air,
W77-02511 1005 7B

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

Direct Physicochemical Treatment with Ozone,
W77-02747 1006 5D

Decontamination of Water Contaminated with Polycyclic Aromatic Hydrocarbons (PAH). I. Action of Chlorine and Ozone on PAH Dissolved in Doubly Distilled and in De-Ionized Water,
W77-03369 1007 5D

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Studies on the Recurrence of Bacterial Flora in Drinking Water After Ozonization, (In German),
W77-04074 1008 5F

Water Ozonation in Fish Culture, (In German),
W77-04591 1009 5F

Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

An Apparatus for Waste Water Treatment by Ozone (Ozon ni yoru haisui shori sochi),
W77-06106 1013 5D

Disinfection of Viruses in Sewage by Ozone,
W77-06128 1013 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Ozonation of Reclaimed Water.
W77-06141 1013 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Oxidation and Ozonation Chamber,
W77-06999 1014 5D

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

Ozonation in a Better Perspective,
W77-07293 1015 5D

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Ozone Effect of Synthetic Rubber Waste Treatment,
W77-08267 1017 5D

Ozone and Chlorine in Waste Water Disinfection,
W77-08536 1017 5D

Ozone Disinfection of Secondary Effluent,
W77-08638 1018 5D

On the Properties of Waste Water Produced in Ozone Bleaching of Kraft Pulp (In Japanese),
W77-10700 1021 5A

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Disinfection and Odor Control.
W77-11497 1022 5D

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Disinfection, (Literature Review),
W77-11730 1023 5D

Ultraviolet Light Enhances Ozonization of Organics Dissolved in Wastewater.
W77-11749 1023 5D

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants: Volume I - Grandville, Michigan,
W77-11762 1023 5D

Treatment of Effluent from a Pulp and Paper Mill Through Ozone and the Activated Sludge Process (Die Behandlung des Abwassers einer Zellstoff- und Papierfabrik mittels Ozon und Belebtschlammverfahren),
W77-12362 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

OZONE MATTER
Ozone Oxidation of Waste Water,
W77-07094 1014 5D

OZONE REACTORS
An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

OZONIZATION
Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Studies on the Recurrence of Bacterial Flora in Drinking Water After Ozonization, (In German),
W77-04074 1008 5F

OZONIZED SEA WATER
Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

P. L. 92-500
P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

PACIFIC COAST REGION
Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

California--'Saving the Coast',
W77-06048 1012 6G

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

Urban Renewal Agency of City of Monterey V California Coastal Zone Conservation Commission (Municipal Corporation Exempt from Coastal Zone Conservation Act Permit Requirement).
W77-11178 1022 6E

PACIFIC EQUATORIAL UNDERCURRENT
Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

PACIFIC HAKE
Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

PACIFIC HALIBUT
Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

PACIFIC NORTHWEST
Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

PACIFIC NORTHWEST U. S.
The Universal Soil Loss Equation as Adapted to the Pacific Northwest,
W77-00804 1002 2J

An Operational Application of Satellite Snow Cover Observations - Northwest United States,
W77-02496 1005 2C

Ground-Water Pollution Problems in the Northwestern United States,
W77-05307 1011 5B

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

PACIFIC NORTHWEST US

The Effects of Dredging on Water Quality in the Northwest,
W77-06535 1013 5G

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

Pumped-Storage in the Pacific Northwest, An Inventory.
W77-08224 1017 2H

Effect of Antecedent Conditions on Frozen Ground Floods,
W77-10175 1021 2C

PACIFIC NORTWEST (US)

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

PACIFIC OCEAN

San Diego: Civil Engineering Innovations Abound.
W77-00063 1001 5D

Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

A Cyclesonde View of Coastal Upwelling,
W77-00654 1002 2L

Seasonal Shifts in the Spawning Site of a Northeast Pacific Intertidal Fish,
W77-01063 1002 2L

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

Vertical Profiles of Temperature and Fine-Scale Velocity Structure in the Thermocline,
W77-01615 1004 2L

Variations in Coastal Temperatures on the Southern and Central California Coast,
W77-01917 1004 2L

Distribution of Carbonate in Surface Sediments of the Pacific Ocean,
W77-02134 1005 2L

The Effect of the Geostrophic Flow Upon Coastal Sea Elevations in the Northern North Pacific Ocean,
W77-02477 1005 2L

A Technique for Estimating Tropical Open-Ocean Rainfall from Satellite Observations,
W77-02484 1005 2B

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

Evidence of a Westward-Flowing 'Subarctic Countercurrent' in the North Pacific Ocean,
W77-03760 1008 2L

Spectral Analysis of the Long-Term Oceanographic Time Series at Ocean Weather Station 'P',
W77-03843 1008 2L

Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

An Analysis of Inertial Oscillations Observed Near Oregon Coast,
W77-06892 1014 2L

Particulate Transport of Radionuclides 14C and 55Fe to Deep Waters in the Pacific Ocean,
W77-06902 1014 5B

Results of R/V Yaquina Cruise Yaloc-74, Leg 3: Seabed Disposal Program, North Pacific Study Area MPG-2, 33 degrees 20'N, 151 degrees 00'W, Nov. 30 - Dec. 21, 1974,
W77-07739 1016 5E

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

Aluminum-26 in Deep-Sea Sediment,
W77-11538 1023 5B

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

PACIFIC OYSTER

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

PACIFIC SLOPE BASINS (CALIF)

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

PACK ICE

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

PACKAGE PLANTS

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

PACKED-BED REACTORS

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

PACKED BEDS

The Use of Packed Beds in Water Pollution Control,
W77-08637 1018 5D

Pilot-Scale Investigations into the Use of Random-Pack Plastics Filter Media in the Complete Treatment of Sewage,
W77-09830 1020 5D

Effluent Purification by Biological Rotary Contactor-Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

High Rate Filter at Rugby.
W77-11723 1023 5D

Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

PACKING PLANTS
A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

PADAN
Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

PADDLES (D-PRIME AND C-PRIME SHAPED)
Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

PAINT
Effluent Treatment in the Paint and Surface Coating Manufacturing Industry,
W77-00764 1002 5D

PAINTS
Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 16 Paint and Ink Formulation and Printing.
W77-04301 1009 5G

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

PAKISTAN
Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

On-Farm Water Management Practices for Alleviating Waterlogging and Salinity Problems in Pakistan,
W77-12763 1024 5G

PALAEMON
The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

PALAEMONETES
The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

PALAEMONETES PUGIO
Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

PALAEMONETES SP
Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

PALAEOHYDRAULICS
The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

PALEOCLIMATOLOGY
Anomalous Local Glacier Activity, Baffin Island, Canada: Paleoclimatic Implications,
W77-01333 1003 2C

Present and Past Glaciation Threshold in the Cascade Range, Washington, U.S.A.: Topographic and Climatic Controls, and Paleoclimatic Implications,
W77-08056 1016 2C

Global Mass and Energy Requirements for Glacial Oscillations and Their Implications for Mean Ocean Temperature Oscillations,
W77-10327 1021 2B

Long-Range Changes,
W77-10443 1021 2A

PALEOHYDROLOGY
The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

PALEOLIMNOLOGY
Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

The Utility of Paleolimnological Analyses of Lake Sediments for Evaluating Acid Precipitation Effects on Dilute Lakes,
W77-08103 1017 5A

Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

PALLADIUM
Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

PALM BEACH COUNTY (FLA)
Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

PALMITIC ACID
Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

PALO ALTO (CALIF)
Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

PALOUSE RIVER BASIN (WASH)
Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

PALYNOLOGY
Certain Characteristic Features of Flowering and Pollination in Duckweeds (Lemnaceae S. Gray),
W77-01778 1004 4A

PAMLICO RIVER ESTUARY (NC)
Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

The Utilization of Dissolved Free Amino Acids by Estuarine Microorganisms,
W77-07117 1015 5C

PAMLICO SOUND (NC)
Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

Rehabilitation of Pamlico Sound Oyster Producing Grounds Damaged or Destroyed by Hurricane Ginger,
W77-03562 1007 6B

Circulation and Surge Modeling in Pamlico Sound, N.C.,
W77-07320 1015 2L

PANAMA
Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

PANAMA CITY (FLA)
The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

PANDALUS SP.
Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

PANHANDLE RIVER BASINS (IDAHO)
Summary Report Conclusions and Recommendations: Panhandle River Basins, State Water Plan--Part Two.
W77-06360 1013 6B

PANICUM AMARUM
Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Dune Stabilization with Panicum Amarum Along the North Carolina Coast,
W77-08908 1018 2L

PAPAGO INDIANS
Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

PAPAIN
Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

PAPER MILLS
Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

PAPERJACK CREEK (WI)
Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

PAPILLOMATOSIS
The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

PAR POND (GEO)
A Report on the Methylmercury Situation in Par Pond,
W77-03954 1008 5B

PARACALLIOPE-FLUVIATILIS
Toxicity of Paraquat to Paracalliope Fluviatilis (Amphipoda),
W77-00666 1002 5C

PARACENTROTUS (LIVIDUS)
Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

PARAFFINS
Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

PARAGONIMUS-MIYAZAKII
Studies on the Incidence of Encysted Larvae of Paragonimus Mivazakii Kamo Et Al, 1961 in the Crab Potamon Dehaani in Shizuoka Prefecture, Japan, (In Japanese),
W77-01036 1002 5C

PARAGUAY
Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

PARAGUAY RIVER (BRAZIL)
A Swampland Model,
W77-12085 1023 2E

PARALLEL-CHANNEL AQUIFERS
Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

PARALLEL PLATES SEPARATORS
Designing Parallel-Plates Separators,
W77-06222 1013 5D

PARAMETERS
Estimation of Parameters of a Uniformly Non-linear Surface Runoff Model,
W77-11985 1023 2E

PARAMETRIC HYDROLOGY
Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

Structural Relation Between Parametric and Stochastic Hydrology Models,
W77-07664 1016 2A

Significance Tests of Periodicity in Hydrological Time Series,
W77-07665 1016 2A

Estimation of Parameters of a Uniformly Non-linear Surface Runoff Model,
W77-11985 1023 2E

PARAMETRIC PROGRAMMING
Decomposition of Water Distribution Networks,
W77-05251 1011 4A

PARANA RIVER (ARGENTINA)
Hydrochemistry of the Parana River,
W77-00644 1002 2K

PARAQUAT
Toxicity of Paraquat to Paracalliope Fluviatilis (Amphipoda),
W77-00666 1002 5C

Influence of Water Treated Artificially with Herbicides on Honey Bee Colonies,
W77-00689 1002 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

PARASITIC INFECTION
The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

PARASITICIDES
Effects of Parasiticides on Nitrification,
W77-05632 1012 5C

PARASITISM
Abundance and Population Dynamics of Parasites Infecting Atlantic Salmon (Salmo Salar) in Trout Brook, New Brunswick, Canada,
W77-03053 1006 5C

Relationship Between Thermal Loading and Parasitism in the Mosquitofish,
W77-05575 1011 5C

The Mining Fauna in Four Macrophyte Species in Mikolajskie Lake,
W77-06688 1014 5C

The Larval Spirurid Nematodes of Fresh-Water Crustaceans: I. The Identification and the Examination of Their Pathogenicity,
W77-07458 1015 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

PARATHION
Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Degradation of Parathion in Seawater,
W77-09506 1019 5B

PARATHION DEGRADATION
Organic Matter and Parathion Degradation in Flooded Soil,
W77-11561 1023 5B

PARIA RIVER
Channel Changes in the Colorado River Below Glen Canyon Dam,
W77-00832 1002 2J

PARIS
Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

PARKER DAM (ARIZ)
Sediment Control at Imperial Dam,
W77-00802 1002 4D

PARKS
The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

Genesee County Parks and Recreation Study,
W77-05214 1011 6B

The Power Park Concept: Ameliorating Man's Disorder with Nature's Order,
W77-05542 1011 5C

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels),
W77-07280 1015 6E

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

Mc Cormick V Lawrence (Constitutionality of New York Statute Aimed at Promoting Governmental Interest in Preserving Appearance of an Area).
W77-09004 1018 6E

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

PARLANGE EQUATION
Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

PARRAFINS
Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

PARROTS-FEATHER
Parrot's-Feather (Myriophyllum Aquaticum (Vell.) Verdc.), an Aggressive Water Weed in Portugal, (In Portuguese),
W77-02247 1005 5G

PARSONS LAKE (TEXAS)
Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

PARTIAL AIR LIFT SYSTEM
Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

PARTIAL-DURATION SERIES METHODS
Theoretical Probability Distribution of Critical Hydrologic Events by the Partial-Duration Series Method,
W77-09109 1019 2B

PARTIAL GRADIENTS (ESTIMATION)
Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

PARTIAL MOLAL VOLUMES
Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

PARTIAL PRESSURE
Apparatus for Prolonged Maintenance of Specific Gas Concentration in the Water of Experimental Aquaria,
W77-07841 1016 7B

PARTICAL SIZE
Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

PARTICIPATING FUNDS
International Joint Ventures in Fishing and 200-Mile Economic Zones,
W77-00707 1002 6E

PARTICLE INVASION
Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

PARTICLE SIZE
Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Examination of Sewage Sludge with Special Regard to Particle Size Distribution (Klaerschlammuntersuchung Unter Besonderer Beruecksichtigung Der Teilchengroessenverteilung),
W77-04716 1010 5A

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Predicting Particle-Size Composition of Eroded Soil,
W77-05439 1011 2J

An Automated Rapid Sediment Analyser (ARSA),
W77-06318 1013 2J

Factors Influencing the Dewatering Characteristics of Sludge,
W77-07097 1014 5D

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

Grain-Size Parameters of Insoluble Residues in Mixxed Terrigenous-Skeletal Carbonate Sediments and Sedimentary Rocks: Some New Zealand Examples,
W77-08848 1018 2L

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

Predicting Particle-Size Composition of Eroded Soil,
W77-11409 1022 2J

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

Incomplete Extraction of Rapidly Settling Particles from Water Samplers,
W77-11801 1023 2L

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Backwash of Granular Filters Used in Wastewater Filtration,
W77-12077 1023 5D

PARTICLE VELOCITY
An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

PARTICULATE PETROLEUM RESIDUES
High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-06911 1014 5B

PARTICULATE TRANSPORT
Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

PARTICULATES
An Electron Microscopy Study of Particulates Present in Individual Raindrops,
W77-11821 1023 2B

PARTITION COEFFICIENTS
Calculation of Partition Coefficients Useful in the Evaluation of the Relative Hazards of Various Chemicals in the Environment,
W77-01322 1003 5C

PASCAGOULA RIVER ESTUARY (MISS)
A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

PASS-THROUGH PROGRAM
Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

PASSAIC RIVER (NJ)
Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

PASSIVE MICROWAVE RADIOMETRY
Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

PASSUMPSIC RIVER (VT)
An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

PASTEURIZATION
Pasteur v Curie.
W77-09864 1020 5D

PASTURE MANAGEMENT
Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Effect of Dew on Leaf Water Potentials and Crop Resistances in a Paspalum Pasture,
W77-03736 1008 3F

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding.
W77-05947 1012 4D

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

PASTURES

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

Effect of Dew on Leaf Water Potentials and Crop Resistances in a Paspalum Pasture,
W77-03736 1008 3F

Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

PATAPSCO RIVER

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

PATENTS

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Paper Chemical Reclamation and Reuse Via Reverse Osmosis,
W77-00340 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Process for Treating Waste Water (Verfahren zur Behandlung von Abwasser),
W77-00343 1001 5D

Aggregation Treatment Apparatus for Waste Water,
W77-00560 1002 5D

Sewage System,
W77-00561 1002 5D

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

Tank Clarification Plant,
W77-00563 1002 5D

Sludge Elevator for Fluid Clarification System,
W77-00564 1002 5D

Double Funnel Device for Oxygenating Sewage,
W77-00565 1002 5D

Method of Treating Waste Water,
W77-00566 1002 5D

Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 1002 5D

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

Sewage System with Reusable Flush Medium,
W77-00569 1002 5D

Apparatus for Aerobic Decomposition of Sewage,
W77-00570 1002 5D

Treating Polluted Water.
W77-00571 1002 5D

Treatment of Sewage.
W77-00572 1002 5D

Decanting Waste Water.
W77-00573 1002 5D

Method of Wastewater Treatment,
W77-00574 1002 5D

Phosphorus Removal from Waste Water.
W77-00575 1002 5D

Method for Improving Sewage Sludge Incineration,
W77-00576 1002 5E

Apparatus for Treatment of Aqueous Sewage Composition,
W77-00577 1002 5D

Treating Sewage and Recovering Usable Water and Solids,
W77-00578 1002 5D

Process for Removing Dispersed Matter from Water,
W77-00684 1002 5G

Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Scale Inhibition and Compounds Therefore,
W77-00686 1002 5F

Removal of Contaminants from Water,
W77-00687 1002 5G

Portable Water Sterilization Device,
W77-00688 1002 5F

Gravity Clarifier,
W77-00690 1002 5D

Wave Generator,
W77-00691 1002 8C

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

Treatment of Aqueous Waste Solution,
W77-00694 1002 5D

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Method and Apparatus,
W77-00696 1002 5D

Effluent Treatment,
W77-00697 1002 5D

Liquid Treatment Apparatus,
W77-00699 1002 5D

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Zinc Removal from Viscose Plant Effluent - by Extraction with Alkyl Phosphoric Acid into an Organic Solvent and Re-Extraction Decomposition Therefrom.
W77-00756 1002 5D

Removing Iron from Acid Waste Liquids by Oxidation - at Controlled PH by Addition of Base, Giving Easily Separated Precipitation for Large-Scale Use.
W77-00761 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

Wet Cooling Tower with Plume Eliminator,
W77-01193 1003 5G

Wave Energy Machine,
W77-01194 1003 8C

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Method for Lowering Ground Water,
W77-01196 1003 8B

Non-Side-Splash Water Sprinklers,
W77-01197 1003 3F

Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Multi-Stage Flash Distillation Plant,
W77-01199 1003 3A

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Oil-in-Water Monitor,
W77-01201 1003 5A

Apparatus for Spilling Retrieval,
W77-01202 1003 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Oil Collection Barge,
W77-01204 1003 5G

Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Ocean Thermal Gradient Power Plant,
W77-01206 1003 8C

Connecting Channel Between Two Different Water Levels,
W77-01207 1003 8C

Apparatus for Treating Liquids,
W77-01210 1003 5D

Apparatus for Collecting Oil Slick from a Body of Water,
W77-01211 1003 5G

Method for Finding Temperature Environments for Fish,
W77-01212 1003 7B

Drip Irrigation Device,
W77-01213 1003 3F

Oceanographic Apparatus,
W77-01214 1003 2L

Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Recla-

mation Apparatus for Carrying out said Method,
W77-01215 1003 3A

Method and Apparatus for the Purification of a Liquid Contaminated with Radioactive Substances,
W77-01216 1003 5D

Waste Water Treatment,
W77-01217 1003 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Chromium Removal and Recovery Process,
W77-01220 1003 5D

Breakwater Construction,
W77-01221 1003 8B

Floating Breakwaters,
W77-01222 1003 8B

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Pipe-Following Irrigation Machine,
W77-01224 1003 3F

Pipe Insertable Emitter for Irrigation Systems,
W77-01225 1003 3F

Heavy Metal Adsorbent Process,
W77-01226 1003 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

Floating Skimmer for Cleaning the Surface of a Body of Liquid, Method and Apparatus,
W77-01228 1003 5G

Oil Fence,
W77-01230 1003 5G

Breakwater System for Creating Artificial Sandbars,
W77-01231 1003 8B

Dynamically Balanced Apparatus for Water Borne Instruments,
W77-01232 1003 7B

Conditioning Highly Radioactive Solidified Waste,
W77-01233 1003 5D

Ultraviolet Water Purifier,
W77-01234 1003 5F

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

Method of Producing Char from Pulp Manufacturing Waste Liquor,
W77-01676 1004 5E

Magnetization of Iron Chromium System,
W77-01709 1004 5D

Method for Producing Mechanical Energy from Geothermal Brine,
W77-01710 1004 3C

Method of Protecting a Pile Imbedded in Offshore Areas Having a Shifting Layer of MUD,
W77-01711 1004 8D

Low Adhesional Arctic Offshore Platform,
W77-01712 1004 8G

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

Watering Apparatus Having Automatic Feed,
W77-01714 1004 3F

Hydraulic Actuated Load Sensing Governor,
W77-01715 1004 3F

Treatment of Condensates,
W77-01716 1004 5D

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

Filter, Especially for Back Water,
W77-01720 1004 5D

Containment Boom,
W77-01721 1004 5G

Water Pollution Monitor,
W77-01722 1004 5A

Quick-Connect Fittings for a Trickle Type Irrigation System,
W77-01723 1004 3F

Water Recycle Treatment System for Use in Metal Processing,
W77-01724 1004 5D

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Process for Purifying Tap Water,
W77-01726 1004 5F

Water Conditioning Device,
W77-01727 1004 5F

Self-Regulating Tide Gate,
W77-01728 1004 8C

Water Gate,
W77-01729 1004 8C

Self-Correcting Linearly Movable Irrigation System,
W77-01730 1004 3F

Drip Irrigation Valve with Spring Biased Plunger,
W77-01731 1004 3F

Method and Apparatus for Controlling the Discharge of Contaminants from Ships,
W77-01732 1004 5G

Method of Disinfecting Water,
W77-01734 1004 5F

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

Dewatering Process,
W77-01738 1004 5D

Liquid Treating System,
W77-01739 1004 5F

Purification of Industrial Waste Waters by Flotation,
W77-01740 1004 5D

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Modular Aerator and Separator Assembly for Sewage Treatment Facility,
W77-01743 1004 5D

Low Level Snow Precipitation Gauge,
W77-01744 1004 2C

Oscillating Sprinkler,
W77-01745 1004 3F

Method of Biological Purification of Sewage,
W77-01746 1004 5D

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Ion Exchange Regeneration,
W77-01748 1004 5F

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Separation Chamber, Holding Tank, Drainage System,
W77-01750 1004 5D

Osmosis Process for Producing Energy,
W77-01751 1004 3A

System for Utilizing Energy in a Fluid Current,
W77-01752 1004 8C

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Peripheral Water Balance Control for Center Pivot Irrigation System,
W77-01754 1004 3F

Governor for Rotary Sprinkler,
W77-01755 1004 3F

Drip or Trickle Emitter for Use in Drip or Trickle Irrigation,
W77-01756 1004 3F

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Continuous Treatment of Wool Wash Liquid - Efficiency Increased by Supplementary Closed Contaminant Treatment Circuit Linked to Liquid Cleaning Circuit.
W77-02002 1004 5D

Removing Polyvinyl Alcohol from Textile Finishing Waste Water - by Adding a Binder, e.g., a Salt or Formaldehyde, to Insolubilise the Polymer.
W77-02003 1004 5D

Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolytically Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

Suspended Sludge Scraper for Arcuate Sedimentation Zone,
W77-02335 1005 5D

Clarification Plant,
W77-02337 1005 5D

Freeing Waste Water from Nitrogenous CPDS - Using Partially Oxidised Sludge as Source of Organic Carbon.
W77-02339 1005 5D

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

Combined Filter and Dryer for Sewage Sludge Etc. - Uses Band of Vacuum Filter to Carry Cake Through Filter Press.
W77-02341 1005 5D

Sewage Surface Aerator - Without Axial Thrust Thus Reducing Vibration from Waves.
W77-02342 1005 5D

Treatment of Papermaking Effluents (Traitement d'effluents de papeteries),
W77-02570 1005 5D

Treating Effluent Containing Compounds Pref. Dyes - By Adding Salt Generator of Opposite Charge to Effluent Ion then Ultra-Filtering.
W77-02612 1006 5D

Air and Water Purification - with Acid Chlorite Solution.
W77-02613 1006 5D

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

The Purification of Industrial Effluent.
W77-02615 1006 5D

Activated Sludge Waste Water Treatment Process - Using Succession of Aerobic and Anaerobic Zones to Remove Nitrogenous Material.
W77-03402 1007 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues.
W77-03403 1007 5D

Biological Treatment of Sewage Waters - Device with Internal Aeration Zone,
W77-03404 1007 5D

Sludge Collector and Light Liquid Separator-From Sewage with Two Tanks in Single Housing and Cover.
W77-03405 1007 5D

Sewerage Treatment Apparatus,
W77-03406 1007 5D

Biological Purification of Sewage Water-In a Multi-Stage Treatment Tank With Rotating Contactor Surfaces Partly Immersed in the Liquid.
W77-03407 1007 5D

Coagulation Clarifying Effluents Contaminated with Colloid Suspensions-By Electrophoresis After Mixing in Insoluble Metallic Particles.
W77-03408 1007 5D

Biological Converter for Faecal Matter in Water - Using Rotary Tubes With Fibrous Filling Supporting the Bacterial Culture.
W77-03409 1007 5D

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Integral Circular Wastewater Treatment Plant.
W77-03411 1007 5D

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Sewage Sludge Treatment System,
W77-03487 1007 5D

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Treatment of Putrefactive Meat and Fish Waste -- for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

Chlorine-Based Bleachery Effluent Treatment,
W77-03806 1008 5D

Product and Method for Reducing Water Loss Through Soil by Seepage,
W77-03863 1008 3B

Hose or Pipe for Sprinkling or Irrigation,
W77-03864 1008 3F

Adsorption Biooxidation Treatment of Waste Waters to Remove Contaminants Thereform,
W77-03865 1008 5D

Method of Disposing Sludges Containing Soluble Toxic Materials,
W77-03866 1008 5E

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Device for Purifying Sewage,
W77-03869 1008 5D

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

Irrigation Pipes with Dripper Units and Method of its Manufacture,
W77-03871 1008 3F

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

High Yield Stripping Column for Alcoholic Solutions--With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

Recovering Polyvinyl Alcohol from Waste Water-By Coagulating with Borate and Inorganic Salt in Presence of Quaternary Ammonium Compound to Reduce Water Content of Gel.
W77-04460 1009 5D

Automatic Clarity Control of Overflow from Sedimentation Tank-With Sludge Pump Actuated by Photo-Electric Check of Sample Liquid.
W77-04668 1010 5D

Sludge Settling Basin,
W77-04669 1010 5D

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Biological Treatment of Effluent Containing Activated Sludge-Involves Continuously Introducing Oxygen (Contg. Gas) and Feeding the Outlet Gas to a Burner.
W77-04671 1010 5D

Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

Settled Sludge Removal.
W77-04673 1010 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

Sewage Disposal System,
W77-04675 1010 5E

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Tertiary Filter for Waste Treatment,
W77-04677 1010 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues,
W77-04678 1010 5D

Sewage Sludge Irradiation System-Applying Electron Beam Before Mixing Gap Between Endless Belts Moving at Differential Speed.
W77-04679 1010 5D

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

Aerobic Type Sewage Digestion System,
W77-04681 1010 5D

Activated Sludge Treatment-Passing all Sewage by Force Pump Through Atmospheric Air Entraining Enjectors into Activation Tank,
W77-04682 1010 5D

Stirring Apparatus for Waste Water Purification - By Injection of Gas in Biological Treatment Tank,
W77-04683 1010 5D

Distribution Valve for Irrigation Channels,
W77-04950 1010 3F

Brine Desalination Process with Phase-Breaking by Cold Hydrocarbon Injection,
W77-04951 1010 3A

Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Surf-Turbine Generating System,
W77-04954 1010 8C

Automatic Watering Installation,
W77-04955 1010 3F

Apparatus for Controlling Marine Fouling of Salt Water Coolant Heat Exchangers, Piping Systems, and the Like,
W77-04956 1010 8G

Wet Combustion of Organics,
W77-04957 1010 5D

Process for Insolubilizing Potentially Water Pollutable Wastes from Sodium or Ammonium Type Sulfur Dioxide Air Pollution Control Systems,
W77-04958 1010 5D

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

Treating Foul Refinery Waste Waters with Absorber Gas,
W77-04961 1010 5D

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

Membrane Separation Equipment,
W77-04963 1010 3A

Sewage Treatment Plant,
W77-04964 1010 5D

Sewage Treatment Apparatus,
W77-04965 1010 5D

Apparatus for Purifying Polluted Water,
W77-04966 1010 5D

Gravity Filtering Equipment,
W77-04967 1010 5F

Device for Extracting Liquid from Sludge,
W77-04968 1010 5D

Waterwheel Driven Electrical Generator,
W77-04969 1010 8C

Oil Spill and Oil Pollution Reports August 1975 - October 1975,
W77-05023 1010 5B

Oil Spill and Oil Pollution Reports May 1975 - July 1975,
W77-05024 1010 5B

Oil Spill and Oil Pollution Reports November 1975 - January 1976,
W77-05025 1010 5B

Oil Spill and Oil Pollution Reports February 1976 - April 1976,
W77-05026 1010 5B

Purification of Resin-Forming Effluent Waters for Bakelite Manufacture--Involves Condensation to Useful Glue Resin with Ammonia Then Sodium Hydroxide,
W77-05497 1011 5D

Purifying Waste Liquor-From, E.G., Sodium Carbonate Production, Ammonia Regeneration, Brine Purification, Etc.
W77-05499 1011 5D

Dairy Effluent Electroflotation Purifier-Having Electrode Units in Alternative Rows with Gap Control,
W77-05500 1011 5D

Automatic Waste Water Purification Control-with Cyanide Sensors at Inlet and Outlet Regulating Chemicals. Additions to Improve Cyanide Removal,
W77-05505 1011 5D

Electrolytic Purification of Industrial Effluents-for Removal of Heavy Metals, Oil, Etc.,
W77-05509 1011 5D

Removal of Organic Impurities from Industrial Waste Water - by Adsorption with Organo Silicon. Compound Modified with Alkaline Solution of Shungite,
W77-05513 1011 5D

Sand Bed Filter with Automatic Sludge Discharge-as Sludge Sump Pressure Rises, Uses Compressed Air to Comb Bed,
W77-05514 1011 5D

Removing Polyvinyl Alcohol from Waste Water with Boric Acid or Borax-with Reuse of Water in Textile Sizing, and Reuse of Polymer Borate Compound in Textile Sizing, Adhesives, and Treating Paper Fibres.
W77-05516 1011 5D

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Sample Collecting Apparatus,
W77-05652 1012 5A

Freezer, Vacuum, Oven Sewage Treatment System,
W77-05653 1012 5D

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

Method and System for Purifying Liquid,
W77-05655 1012 5D

Method of Treating Wastewater with Flowable Flocculants,
W77-05656 1012 5D

Soil Sealing Method,
W77-05657 1012 3B

Liquid Sampling,
W77-05658 1012 5A

Spraying Apparatus,
W77-05659 1012 3F

River Turbine,
W77-05660 1012 4A

Recovery of Chromates by Membrane,
W77-05661 1012 5D

Treatment of Waste Rolling Oil,
W77-05663 1012 5D

Method and Apparatus for Clarifying Contaminated Liquids,
W77-05664 1012 5D

Effluent Waste Treatment Process and Apparatus,
W77-05665 1012 5D

Apparatus for Treating a Liquid,
W77-05666 1012 5F

Oil Spill Apparatus,
W77-05667 1012 5G

Floating Device for Removing Refuse Situated on and Under a Water Surface,
W77-05668 1012 5G

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

Method of Purifying the Waste Water of Paper Mills,
W77-05703 1012 5D

Purification of Waste Water from Sulfate Pulp Bleaching Plants,
W77-05704 1012 5D

Waste Treatment and Solids Separating System,
W77-06104 1013 5D

Sewage Settling Tank,
W77-06105 1013 5D

An Apparatus for Waste Water Treatment by Ozone (Ozon ni yoru haisui shori sochi),
W77-06106 1013 5D

Apparatus for Biological Treatment of Waste Water,
W77-06107 1013 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-06108 1013 5D

Polluted Water Purification,
W77-06110 1013 5D

Process of Treating Gelatinous Sludge Agglomerations,
W77-06111 1013 5D

Converting Sewage Sludge into Compost.
W77-06112 1013 5D

Sewage Treatment Devices Particularly for Marine Applications,
W77-06113 1013 5D

Power Generation from Hot Brines,
W77-06442 1013 3E

Geothermal Energy Pump and Monitor System,
W77-06443 1013 4B

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Method and Apparatus,
W77-06446 1013 5D

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

Degritting and Fiber Removal System,
W77-06448 1013 5D

Wave Energy Power Generating Breakwater,
W77-06449 1013 8B

Novel Irrigation System and Method for its Application,
W77-06450 1013 3F

Method for Constructing an Ice Platform,
W77-06451 1013 3E

Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

Rigging System for an Endless Oil Mop,
W77-06459 1013 5G

Cyclone with Plural Peripheral Discharge Tubes,
W77-06460 1013 5D

Electron-Beam Irradiation of Waste Products--e.g., For Sterilization of Sewage Sludge and Waste Industrial Products.
W77-06997 1014 5D

Sludge Separator.
W77-06998 1014 5D

Oxidation and Ozonation Chamber,
W77-06999 1014 5D

Hydrocarbon Products Manufacture--By Carbonisation of Coal, Scrap Rubber or Plastic or Domestic Sewage Under Reduced Pressure.
W77-07000 1014 5D

Sewage Aeration Impeller-With Automatic De-Icing and Anti-Clogging System,
W77-07001 1014 5D

Apparatus for Disposal of Effluents.
W77-07002 1014 5E

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Renovation of Waste Water,
W77-07004 1014 5D

Waste Treatment Apparatus,
W77-07005 1014 5D

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

Apparatus and Process for Removing Ammonia Nitrogen from Waste Water,
W77-07008 1014 5D

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-07089 1014 5G

Method of Treating Waste Water with Jet Nozzles,
W77-07090 1014 5D

Waste Treatment Process,
W77-07091 1014 5D

Clarifier with Overflow Scum Removal,
W77-07092 1014 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-07093 1014 5D

Ozone Oxidation of Waste Water,
W77-07094 1014 5D

Purification of Industrial Waste Water Containing Organic Impurities--By Contacting with Adsorbent Polymer Material in Solvated Gel State.
W77-07222 1015 5D

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Purifying Waste Liquor Containing Sulphide, Sulphite and Thiosulphate-Alkaline Oxidation Followed by Acid Oxidation, Using Oxygen.
W77-07226 1015 5D

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

Marine Sanitation Method and Device,
W77-07891 1016 5D

Coal Distn. Waste Liquor Purifcn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

Oxygen Addn. Regulation in Water and Sewage Purifcn.--Using Ejectors to Secure Intimate Contact with Activated Sludge,
W77-07893 1016 5D

Flotation Treatment of Waste Water and Sewage-Using Gas Contg. Oxygen in Deep Pit to Float the Particles,
W77-07894 1016 5D

Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

Sewage Treatment Apparatus,
W77-07896 1016 5D

Control of Aerobic Biological Growth in Activated Carbon Waste Treatment,
W77-07897 1016 5D

Floating Breakwater,
W77-08009 1016 8A

Gravity-Measuring Device for Water and Mineral Detection,
W77-08010 1016 7B

Method of Filtering Oil from Liquids,
W77-08011 1016 5G

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Method of Filtering Liquids Containing Dissolved Carbon Dioxide,
W77-08013 1016 5D

Oil Separator Device,
W77-08015 1016 5G

Flow Controller Device,
W77-08017 1016 3F

Fluid Flow Regulator,
W77-08018 1016 3F

Irrigation System,
W77-08019 1016 3F

Method of Separation of Fission and Corrosion Products and of Corresponding Isotopes from Liquid Waste,
W77-08020 1016 5D

Process for Eliminating Reactive Chlorinated Organic Compounds from Aqueous Solutions,
W77-08021 1016 5D

Tidewater Power System,
W77-08022 1016 8C

Apparatus for Power Generation in Deep Seawater,
W77-08023 1016 8C

Liquid Sampler,
W77-08024 1016 7B

Sprinkler Adapted for Attachment to the Ground,
W77-08025 1016 3F

Mechanism for Tapping the Surf Energy,
W77-08026 1016 8C

Composition and Method of Inhibiting Growth of Slime in Water,
W77-08027 1016 5G

Sewage Sludge Treatment System,
W77-08030 1016 5D

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

Method and Apparatus for Obtaining Electrical Power from Sea Water,
W77-08032 1016 8C

Skimmer Apparatus for Sewage Settling Tanks and the Like,
W77-08088 1016 5G

Method for Improving the Quality of Contaminated Waste Water,
W77-08090 1016 5D

Prefabricated Panels for Sub-Surface Sewage Effluent and Waste Water Disposal,
W77-08091 1016 5E

Water Waste Treatment,
W77-08092 1016 5D

Incineration Method and System,
W77-08098 1016 5E

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-08099 1016 5D

Waste-Water Process,
W77-08100 1016 5D

Year Round Cooling Water from the Cold Weather of Winter,
W77-08251 1017 5D

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

Thermal Sensor for Measurement of Ocean Current Direction,
W77-08257 1017 2L

Kraft Mill Recovery System,
W77-08258 1017 5D

Precoat for Permeability Separation Systems,
W77-08259 1017 5D

Method of Dispersing Oil in Water,
W77-08260 1017 5G

Pump-Filter for Bilge Water,
W77-08261 1017 5G

Marine Life Protector,
W77-08262 1017 8I

Liquid Waste Treatment Apparatus,
W77-08263 1017 5D

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Treatment of Aqueous Condensates and Effluents from Coking Plants--With Alkali Salts of Weak Acids, to Expel Ammonia.
W77-08275 1017 5D

Purifying Biological Effluent Rich in Carbohydrates or Protein--By Anaerobic Fermentation Separation, Aerobic Treatment and Then Separation.
W77-08277 1017 5D

Aerobic Treatment of Liquid Wastes--With Oxygen Concentration Measured and Used to Control Pump Speed Used to Force Liquid Through Venturis.
W77-08557 1017 5D

Mechanical Surface Aerator for Effluent Purification--Has the Liquid Scooped by the Curved Elements and Ejected into the Air Above,
W77-08558 1017 5D

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

Cleaning of Sewage Sludge System.
W77-08561 1017 5D

Screening Apparatus for Removal of Solids--from Sewage with Rotating Screen and Vertical Lift for Residues.
W77-08562 1017 5D

Sewage Disposal System.
W77-08563 1017 5E

Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

Barrier for Water Carried Pollutants,
W77-08878 1018 5G

Flow Restrictor and Trickle Emitter,
W77-08879 1018 3F

Easily Movable Irrigation Sprinkler System,
W77-08880 1018 3F

Method of Purifying Waste Water,
W77-08881 1018 5D

Method for Purifying Water of Organic Compounds Not Readily Biodegradable,
W77-08883 1018 5D

Detergent Composition for Dispersing Oil Spills,
W77-08884 1018 5G

Ground Contacting Eldments,
W77-08886 1018 3F

Irrigation Drain Valve,
W77-08887 1018 3F

Rotary Water Sprinkler,
W77-08888 1018 3F

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

Polluted Water Purification,
W77-08890 1018 5D

Method for Purifying Waste Waters which Contain Anionic-Type Organic Compounds,
W77-08891 1018 5D

Fending Device for Oil Containment Boom,
W77-08892 1018 5G

Skimmer Fence,
W77-08893 1018 5G

Means and Method for Controlling Beach and Sandbar Erosion,
W77-08894 1018 8B

Gravitational Irrigation System and Method of Installing,
W77-08895 1018 3F

Remote Sealing of Mine Passages Containing Flowing Water,
W77-08896 1018 5G

Wave Height Measuring Device,
W77-08897 1018 7B

High Sensitivity Flowmeter,
W77-08898 1018 7B

Irrigation Sprinkler Having Improved Water Distribution,
W77-08899 1018 3F

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purifcn.
W77-09414 1019 5D

Continuous Purifcn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Matting for the Prevention of Hydraulic Erosion,
W77-09798 1020 4D

Oceanographic Water Sampler,
W77-09799 1020 7B

Grove Irrigation System,
W77-09800 1020 3F

Self-Regulating Sprinkler,
W77-09801 1020 3F

Rotary Sprinkler Particularly for Use with Low-Energy Water Jets,
W77-09802 1020 3F

Motor Powered by Wave Action,
W77-09803 1020 8C

Distillation Apparatus and Method,
W77-09804 1020 3A

Method and Apparatus for Aerobic Sewage Treatment,
W77-09805 1020 5D

Regular Copolyamides as Desalination Membranes,
W77-09806 1020 3A

Water Purifying Systems,
W77-09808 1020 5F

Acoustical Wave Flowmeter,
W77-09809 1020 7B

Underground Irrigation Porous Pipe,
W77-09810 1020 3F

Traveling Irrigation Sprinkler,
W77-09811 1020 3F

Detoxification of Aqueous Waste Streams Containing Cyanide,
W77-09812 1020 5D

Method for Detecting Oil in Water,
W77-09813 1020 5A

Remote Control for Large-Area Sprinkler Systems,
W77-09814 1020 3F

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-09817 1020 3A

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Aerating Apparatus,
W77-09819 1020 5G

Liquid Filtering Apparatus,
W77-09820 1020 5D

Gravitational Separator,
W77-09821 1020 5D

Continuous Composting of Organic W W Waste--by Automatic Control of Fermentation Temperature and Humidity of Product and Control of Carbon Dioxide or Oxygen in Waste Gases,
W77-09831 1020 5E

Highly Efficient Aerating System--For An Activated Sludge Effluent Treatment Plant, with Restricted Liquid Circulation in Aerating Tank.
W77-09844 1020 5D

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Dioxide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

Metal Finishing Plant Waste Water Purificn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Apparatus for Treating a Liquid Using a Percolating Layer (Appareil de traitment de liquide a couche de percolation).
W77-10696 1021 5D

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-10721 1021 5D

Apparatus for Collecting Deep-Sea Sediment Pore Water,
W77-10881 1022 7B

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

Water Filter Device,
W77-10993 1022 5F

Wave and Current Operated Power Generating Device,
W77-10994 1022 8B

Acoustic Method for Detecting Leaks from Submerged Pipelines,
W77-10995 1022 5G

Soil Irrigation System and Method,
W77-10996 1022 3F

Automatic Closure Valve for Water Sprinkler,
W77-10999 1022 3F

Brake Means for an Air-Powered Sprinkler System,
W77-11000 1022 3F

Reversible Self-Propelled Center Pivot Sprinkler System,
W77-11001 1022 3F

Oil Absorbent Material and Method of Oil Removal,
W77-11002 1022 5G

Process for the Treatment of Acidic Waste Liquid Containing Dissolved Salts,
W77-11003 1022 5D

Method for Preventing Gelation of Thermosetting Resins in Waste Water,
W77-11004 1022 5D

Process for Emergency Small Spill Control,
W77-11005 1022 5G

Liquid Treating Apparatus,
W77-11006 1022 5D

Apparatus for Removal of Oil Films from Water,
W77-11007 1022 5G

Irrigation Signal,
W77-11008 1022 3F

Breakwater System,
W77-11009 1022 8B

Method and Apparatus for Transporting an Irrigation Line,
W77-11010 1022 3F

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Methods of Recovering Wool Grease from Spent Wool Scouring Liquor,
W77-11013 1022 5D

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Sealing Material for Preventing Water-Leakage and Method of Manufacturing Same,
W77-11015 1022 8G

Reactor for Purification of Water by Fluid Filtration,
W77-11016 1022 5F

Apparatus for Disposal of Effluents,
W77-11017 1022 5D

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-11018 1022 5G

Dewatering Machine,
W77-11019 1022 5D

Process for Scale Inhibition,
W77-11021 1022 5F

Water Treatment Using Oxidised Sludge.
W77-11677 1023 5D

Biological Effluent Treatment Plant - With Three Tanks Arranged for Reversible Flow,
W77-11678 1023 5D

Small-Scale Plant for Mechanically/Biologically Purifying Waste Water.
W77-11679 1023 5D

Non-Biodegradable Waste Water Treatment - By Wet Oxidn. Followed by Biological Aeration in Presence of Active Carbon.
W77-11680 1023 5D

Mechanical Sewage Sludge Composting - In Mixer with Recycled Biogenic Mass Charging Revolving Heated Drum.
W77-11681 1023 5E

Aeration Tank for Activated Sludge Treatment of Waste Water - Is Smaller and Requires Less Power for a Given Treatment Capacity.
W77-11682 1023 5D

Oxidizing Organic Refractory Cpds. in Waste Water - By Contact with Ozone Contg. Gas and Simultaneous UV Irradiation.
W77-11683 1023 5D

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Overpurge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

Effluent Purification by Biological Rotary Contactor--Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

Waste Water Organic Residue Detoxification--By Two Stage Thermal Treatment and Separation at Specified Temp.
W77-11687 1023 5D

Effluent Waters Cleaning Automatic Control--Used for Domestic and Industrial Wastes and Based on Colour Minitor to Control Coagulant Supply.
W77-11688 1023 5D

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Electrochemical Chlorine Flux Monitor,
W77-11915 1023 5A

Removal of Mercury from Aqueous Solutions Employing Naval Stores Products,
W77-11916 1023 5D

Thin Cell Electromembrane Separator,
W77-11917 1023 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-11918 1023 3A

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

Composite Sampling Method and System,
W77-11920 1023 5A

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

Process for Removing Oil from Oily Waste Water Streams,
W77-11922 1023 5D

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Waste Treatment of Fluoroborate Solutions,
W77-11924 1023 5D

Lightweight End Connectors for Pollution Containment Boom,
W77-11925 1023 5G

Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

Method for Improving the Filterability of Aluminum Salts Precipitated from Aqueous Solutions,
W77-11930 1023 5D

Wave and Tide Actuated Hydraulic Electrical Generating Apparatus,
W77-11933 1023 8C

Wave Operated Power Plant,
W77-11934 1023 8C

Process for Purifying Industrial Effluents.
W77-12335 1024 5D

Chemical Concentration by Adsorption,
W77-12360 1024 5D

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

Waste Water Aerating and Clarifying Tank-Has Perforated Plate for Circulation Between Aeration and Clarification Zones.
W77-12456 1024 5D

Removal of Sludge from Waste Water Treatment Plant-By Rotary Sweep Footbridge with Inbuilt Suction Scraper.
W77-12457 1024 5D

Treatment of Aqueous Waste Streams.
W77-12458 1024 5D

Method of Packing Media in a Tower or Bed,
W77-12684 1024 5D

Containerized Water Refiner Exchange System,
W77-12685 1024 5F

Method and Apparatus for Collecting Fluid Contaminants,
W77-12686 1024 5A

Apparatus for Determining Salinity of Fluids,
W77-12687 1024 1A

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12688 1024 5D

Water Filter,
W77-12689 1024 5F

Water Purifier,
W77-12690 1024 5F

Oil Pick Up Device,
W77-12691 1024 5G

Sewage Treatment System,
W77-12692 1024 5D

Aerated Sewerwage (sic) Effluent Disposal System,
W77-12693 1024 5D

Apparatus for Circulating and/or Aerating a Liquid,
W77-12694 1024 5D

Membrane Filter System,
W77-12695 1024 5F

Membrane Cartridge with Improved Central Collection Tube,
W77-12696 1024 5F

Cyclical Energy Transfer Method and Apparatus,
W77-12697 1024 2F

Irrigation Purge Valve,
W77-12698 1024 3F

Irrigation Tubing,
W77-12699 1024 3F

Rotating Multitube Biocontactor for Treating Sewage,
W77-12700 1024 5D

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12701 1024 5D

Oil-Water Separation Apparatus,
W77-12702 1024 5G

Apparatus for Clarification of Waste Water Operating on Dissolved Air Flotation Process,
W77-12703 1024 5D

Sealed Sedimentation Device,
W77-12704 1024 5D

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Pick-Up Element for Oily Contaminants,
W77-12707 1024 5G

Method of Removing Oil from Water Using Rice Hulls,
W77-12708 1024 5G

Center-Pivot Irrigation System,
W77-12709 1024 3F

Clamshell-Type Hydraulic Flow Control Gate,
W77-12817 1024 8C

Biological Transformation Plant for Refuse and Sludge--With Pre-Mixer for Treatment Chamber,
W77-12918 1024 5D

Radioactive Treatment of Sewage Sludge--In Irradiation Chamber Sunk in Pit Below Water Tank as Radiation Screen.
W77-12919 1024 5D

Process for Sludge Disposal and Circular Landfill System,
W77-12920 1024 5E

Recirculating Sewerage System,
W77-12921 1024 5D

Method of Reducing Lead and Acid Waste Contamination in Battery Plant Operation,
W77-12922 1024 5D

Disinfection System and Method,
W77-12923 1024 5D

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

Sewage Treatment Process,
W77-12925 1024 5D

Sewage Treatment Aeration Systems,
W77-12926 1024 5D

Waste Water Treatment,
W77-12927 1024 5D

Germicidal Solutions and Methods for Preserving and Purifying Milk, Other Beverages, Foods, Water and Sewage Effluent,
W77-12928 1024 5D

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12929 1024 5D

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12932 1024 5D

Sewage Clarifier System,
W77-12933 1024 5D

Waste Water Treatment Method and Apparatus,
W77-12934 1024 5D

Sewage Treatment Apparatus,
W77-12935 1024 5D

Method for the Treatment of Wastewater,
W77-12936 1024 5D

Waste Water Treatment Apparatus,
W77-12937 1024 5D

Phosphorus Removal from Waste Water,
W77-12939 1024 5D

Process for Treating Municipal Wastes to Produce a Fuel,
W77-12940 1024 5E

Disposal Method and Use of Sewage Sludge,
W77-12941 1024 5E

Aerobic Sewerage Digestion Process (42 C. Process),
W77-12942 1024 5D

Waste Water Treatment Apparatus by Biological Action,
W77-12943 1024 5D

Evaporation of Treated Waste Water,
W77-12945 1024 5D

Apparatus for Removing Solid Material from Sewage or Other Liquid,
W77-12947 1024 5D

Waste Water Treatment Method,
W77-12948 1024 5D

Process for Promotion of Algae Growth in a Sewage Medium,
W77-12949 1024 5D

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

Process of Dewatering Sewage Sludge,
W77-12952 1024 5D

Anaerobic Digestion Process,
W77-12954 1024 5D

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

Anaerobic Waste Treatment Facility,
W77-12956 1024 5D

PATH OF POLLUTANT

Distribution and Abundance of Heavy Metals in Finfish, Invertebrates and Sediments Collected at a Deep Water Disposal Site,
W77-04046 1008 5B

Some Investigations into the Behavior of Plutonium in the Marine Environment,
W77-10398 1021 5C

PATH OF POLLUTANTS

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

Numerical Estuarine Models for Water Quality Management in the Blackstone River-Providence River and the Taunton River-Mt. Hope Bay Complexes,
W77-00152 1001 5B

Distribution of Heavy Hydrocarbons in some Atlantic Ocean Waters,
W77-00252 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Fate of Selected Organic Compounds in the Discharge of Kraft Paper Mills into Lake Superior,
W77-00457 1001 5B

Persistent Organic Compounds from a Pulp Mill in a Near-Shore Freshwater Environment,
W77-00458 1001 5B

Effect of Agricultural Drainage on Water Quality,
W77-00475 1001 5B

Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

Modeling of the Transformation of Nitrogen Compounds in a Closed Aquatic Chemical-Ecological Microsystem, (In Russian),
W77-00494 1001 5B

On Radioactive Waste Management: An Analysis of the Parameters Controlling Subsurface Contaminant Transfer,
W77-00551 1002 5B

Physical Fundamentals of the Mixing of Solutions of Pollutants and Sewage in Porous Media,
W77-00554 1002 5B

Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

Numerical Models of Lake Currents,
W77-00722 1002 5B

Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Chemical and Physical Characteristics of Water in Estuaries of Texas, October 1971-September 1973,
W77-01416 1003 5B

Vertical Distribution of Strontium-90 and Cesium-137 in Bottom Deposits of Rivers and Lakes, (In Russian),
W77-01560 1004 5B

Study on the Characteristic Distribution of Phosphate in Junhae Bay, (In Korean),
W77-01571 1004 5B

Surface Water Pollution-the Catchment Area at Sandefjord, (In Norwegian),
W77-01587 1004 5B

Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

A Model for Calculating Effects of Liquid Waste Disposal in Deep Saline Aquifers, Part I--Development.
W77-02010 1004 5B

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Septic Tank Effluent Movement Through Soil,
W77-02087 1005 5B

Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

Leachate Attenuation in Undisturbed and Remoulded Soils,
W77-02403 1005 5B

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Case History of Landfill Gas Movement Through Soils,
W77-02413 1005 5E

Nutrient Distributions in a Spodosol During Corn Growth,
W77-02516 1005 5B

Modeling Reactions and Transport of Potassium in Soils,
W77-02529 1005 5B

Distributions of 2,4-D and Water in Soil During Infiltration and Redistribution,
W77-02542 1005 5B

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Adsorption of Copper and Cobalt from Fresh and Marine Systems,
W77-02645 1006 5B

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

Convective Model of Longitudinal Dispersion,
W77-02988 1006 5B

Dispersion--Mississippi River Below Baton Rouge, La.,
W77-02989 1006 5B

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

The Transport of Pollutants in Ground Water, (In German),
W77-03131 1007 5B

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems.
W77-03642 1008 5B

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

The Distribution and Transport of Bed Sediments and Persistent Pollutants in the Ottawa River, Canada,
W77-03645 1008 5B

The Role of Flocculation in the Transport of Particulate Pollutants in the Marine Environment,
W77-03646 1008 5B

Mercury Transport by Bed Sediment Movements,
W77-03647 1008 5B

Heavy Metal Concentrations and Distributions in River Mouth Sediments Around the Great Lakes,
W77-03650 1008 5B

Heavy Metal Pollutants in the Sediments of the Rhone River,
W77-03651 1008 5B

Trace Metal Pollution from a Metropolitan Area: Sources and Accumulation in the Lower Fraser River and Estuary,
W77-03652 1008 5B

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Water-Sediment Distribution of Chlorinated Hydrocarbon Pesticides in Various Environmental Conditions,
W77-03660 1008 5B

Dynamique de Degradation du Phenol Dans le Fleuve Saint-Laurent,
W77-03665 1008 5B

The Role of Tin in Bacterial Methylation of Mercury,
W77-03668 1008 5B

Transport and Distribution of Mercury in Sediments,
W77-03669 1008 5B

Origin and Fate of Mercury Compounds in Fish,
W77-03674 1008 5B

The Ways of Transport of Mercury to Fish,
W77-03675 1008 5B

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Computer Modeling,
W77-03679 1008 5B

On Realism and Generality of Bio-Accumulation Models. Towards a General Methodology,
W77-03680 1008 5B

The Ottawa River Project,
W77-03683 1008 5B

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

Distribution and Trend of Nitrate, Chloride, and Total Solids in Water in the Magothy Aquifer in Southeast Nassau County, New York, From the 1950's Through 1973,
W77-03887 1008 5B

Coal Pile Leachate - Quantity and Quality Characteristics,
W77-03992 1008 5B

The Kinetics of Accumulation and Excretion of Ferric Hydroxide in Mytilus Edulis (L.) and its Distribution in the Tissues,
W77-04028 1008 5C

Weed Control and the Environment, (In French),
W77-04041 1008 5B

Radioecological Study of Charophyta, (In Russian),
W77-04068 1008 5C

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

Potential Impact of the Development of Lignite Reserves on Water Resources of East Texas,
W77-04297 1009 5B

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

Hydrology and Water Quality in the Central Kentucky Karst: Phase I,
W77-04602 1010 5B

Virus Movement in Soil Columns Flooded with Secondary Sewage Effluent,
W77-04712 1010 5B

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

Some Remarks on Computer Modeling of Coastal Flows,
W77-04897 1010 5B

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Atmospheric Dispersion Characteristics in the Louisiana Coastal Zone,
W77-05132 1011 5A

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

Hydrocarbons in the Ocean,
W77-05139 1011 5B

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Distributions of Water and Herbicide in Lakeland Sand During Initial Stages of Infiltration,
W77-05180 1011 5B

Diquat and Endothall: Their Fates in the Environment,
W77-05204 1011 5B

An Experimental and Simulation Study of Waste Effluent Filtration Through Soil,
W77-05321 1011 5B

Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

The Highway as a Source of Water Pollution: An Appraisal with the Heavy Metal Lead,
W77-05452 1011 5B

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

Case of a Polluted Water Pipeline, (In Russian),
W77-05687 1012 5B

Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

Experimental and Simulated Transport of Phosphorus Through Sandy Soils,
W77-06015 1012 5B

Final Report on Fertilizer Movement Through Soil Resulting from Rainfall,
W77-06096 1012 5B

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Evaluation of Arsenic Concentrations in the Tulpehocken Creek Basin,
W77-06330 1013 5B

Leachate Plumes in a Highly Permeable Aquifer,
W77-06331 1013 5B

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Transport Pathways of Polychlorinated Biphenyls in Atlantic Water,
W77-06469 1013 5B

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Manganese Cycling in the Newport River Estuary, North Carolina,
W77-06502 1013 5B

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

Lake Currents and Temperatures Near the Western Shore of Lake Michigan,
W77-06687 1014 2H

Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

Particulate Transport of Radionuclides 14C and 55Fe to Deep Waters in the Pacific Ocean,
W77-06902 1014 5B

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite,
W77-06975 1014 5B

Application of Digital Modelling to the Prediction of Radioisotope Migration in Groundwater,
W77-06981 1014 5B

The Effect of the Use of Pesticides and Fertilizers in the Water Protection Zone with Sources of Artificial Replenishment of Underground Water Reserves, (In Russian),
W77-07107 1015 5B

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

The Dynamics of Metals in the American Oyster, Crassostrea virginica. II. Environmental Effects,
W77-07129 1015 5C

Analysis of Flow Against Dispersion in Porous Media,
W77-07150 1015 2F

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Convective-Dispersion in Perennial Streams,
W77-07160 1015 5B

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

Transports in Lake Superior,
W77-07176 1015 5B

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Uptake and Accumulation of the Nickel Ion by Mytilus edulis,
W77-07198 1015 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

Preliminary Projections of Oil Spill Movement for Three Potential Deepwater Port Sites in the Gulf of Mexico,
W77-07753 1016 5B

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Determination of the Leeway of Oil Slicks,
W77-07800 1016 5B

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. IV. Effects on the Immue System,
W77-07834 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Physiological Response of the Cunner, Tautogolabrus Adspersus, to Cadmium. VI. Histopathology,
W77-07836 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Nitrates in Some Soil-Water Systems in Quebec, (In French),
W77-07858 1016 5B

Migration of 90Sr with Runoff Waters from Soils, (In Russian),
W77-07971 1016 5B

The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-08697 1018 5C

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

Transport of Molybdenum in Mountainous Streams, Colorado,
W77-08705 1018 5B

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Simulation of Two-Dimensional Contaminant Transport with Isoparametric Hermitian Finite Elements,
W77-08829 1018 5B

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

Environmental Contaminants Inventory Study No. 3, the Production, Use and Distribution of Lead in Canada,
W77-09221 1019 5B

Sewage Discharges from Ships Transiting Coastal Salt Waters,
W77-09333 1019 5B

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

Nitrate-Nitrogen Movement Through Soil as Affected by Soil Profile Characteristics,
W77-09427 1019 5B

Nitrate Dynamics in Fall Creek, New York,
W77-09431 1019 5B

Simplified Long Term Concept for Evaluating Leaching of Nitrogen from Agricultural Land,
W77-09446 1019 5B

Distribution of Plutonium in Trinity Soils After 28 Years,
W77-09647 1020 5B

Predicting 2,4,5-T Movement in Soil Columns,
W77-09649 1020 5B

Chemical Distribution and Gaseous Evolution of Arsenic-74 Added to Soils as DSMA-(74)AS,
W77-09659 1020 5B

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

Ammonium Diffusion as a Factor in Nitrogen Loss from Flooded Soils,
W77-09966 1020 5B

Computer Simulation of Phosphorus Movement Through Soils,
W77-09970 1020 5B

Movement of Carbaryl Through Congaree Soil into Ground Water,
W77-09976 1020 5B

Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands,
W77-09995 1020 5B

Oxygen-Sag in a Tidal River,
W77-10114 1021 5B

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Mercury in Waterways that Drain into the Wash, in Eastern England,
W77-10152 1021 5B

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

Uptake from Sea Water and Clearance of 14C-p,p'-DDT by the Marine Copepod Calanus finmarchicus,
W77-10249 1021 5C

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Analytical Model of Dispersion in Tidal Fjords,
W77-10303 1021 5B

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Herbicide Transport in Soil Under Center Pivot Irrigation Systems,
W77-10366 1021 5B

Le Transfert du Zinc-65 de Sediments a des Larves de Chironomides et a un Poisson D'eau Douce et L'effet du Cadmium sur ce Transfert, (Transfer of Zinc-65 from Sediments to Chironomid Larvae and to a Freshwater Fish and the Effect of Cadmium on Transfer),
W77-10393 1021 5C

Plutonium Isotopes in Aquatic Foodchains in the Baltic Sea,
W77-10395 1021 5C

Experimental Studies on Plutonium Kinetics in Marine Biota,
W77-10396 1021 5B

Consequences du Deplacement des Sediments sur la Dispersion des Radionucleides, (The Effect of Sediment Displacement on the Dispersal of Radionuclides),
W77-10402 1021 5B

Distribution of Nitrate in Ground Water, Redlands, California,
W77-10558 1021 5B

Numerical Modeling of Subsurface Radioactive Solute Transport from Waste-Seepage Ponds at the Idaho National Engineering Laboratory,
W77-10570 1021 5B

Study of Dilution of Sulfite Mill Effluents in Large Rivers and Evaluation of Determining Factors (Issledovanie protsessa razbavleniya stokov sul'fit-tsellyuloznogo proizvodstva v usloviakh bolshikh rek i otsenka opredelyashchikh faktorov),
W77-10704 1021 5B

Experimental Analysis of the Transfers of a Micropollutant (ZN65) to the Terminal Consumer in a Fresh Water Ecosystem, (In French),
W77-10913 1022 5C

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Modeling Nitrate Movement and Dissipation in Fertilized Soils,
W77-10975 1022 5B

Lysimeter and Field Measurements of Chloride and Bromide Leaching in an Uncultivated Loamy Sand,
W77-11232 1022 5B

Effects of Heavy Metals on Development of the Killifish, Fundulus Heteroclitus,
W77-11252 1022 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Uptake of Copper and Lead By a Metal Tolerant Isopod, Asellus Meridianus Rac.,
W77-11279 1022 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

The Ultrastructure of the Chorion of the Fathead Minnow, Pimephales Promelas,
W77-11293 1022 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Accumulation, Elimination, and Biotransformation of the Lampricide 2',5-Dichloro-4'-Nitrosalicylanilide by Chironomus Tentans,
W77-11315 1022 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

The Depth of Penetration with Water of the Pesticide BHC in the Presence of Sulfanol into the Ground, (In Russian),
W77-11523 1023 5B

Distribution of Plutonium-237 in a Littoral Freshwater Microcosm,
W77-11530 1023 5B

Distribution of Cadmium and Lead in a Stream Ecosystem,
W77-11533 1023 5B

Aluminum-26 in Deep-Sea Sediment,
W77-11538 1023 5B

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

Physiological Characteristics of Mercury Uptake by Two Estuarine Species,
W77-12007 1023 5B

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

The Uptake and Interorgan Distribution of Mercury in a Carnivorous Crab,
W77-12063 1023 5B

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

Fulvic Acid and Aquatic Manganese Transport,
W77-12136 1023 5B

Polychlorinated Biphenyl Compounds (PCB's) and Fishery Resources,
W77-12213 1023 5C

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

Derivation of Equations Describing Solute Transport in Ground Water,
W77-12381 1024 5B

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

Stream Pollution by an Organomercury Compound,
W77-12644 1024 5B

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

Polychlorinated Biphenyls in the Hudson River (Hudson Falls-Fort Edward, New York State),
W77-12853 1024 5B

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

Some Histological and Histochemical Observations on the Transfer of Two Metals (FE3+,CU2+) in Lymnaea (Galba) Truncatula Muller (Donnees Histologiques Et Histochimiques Sur Le Transfert De Deux Metaux (Fe3+, Cu2+) Chez Lymnaea (Galba) Truncatula Muller), (In French),
W77-12867 1024 5B

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

Criteria Document for PCB's,
W77-12882 1024 5A

Preliminary Analysis on the Distribution of Porifera in Areas Exposed to Different Types of Pollution, (In Italian),
W77-12976 1024 5B

PATH OF POLLUTANTS ANALYTICAL TECHNIQUES

Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

PATH OF POLLUTION

Proceedings of: National Conference on Health, Environmental Effects, and Control Technology of Energy Use.
W77-02649 1006 5G

PATH OF POLLUTIONS

PCB Contents in the Muscle of Marine Animals Collected in the Sea near Hakodate (In Japanese),
W77-07315 1015 5C

PATHOGENIC BACTERIA

The Effect of Surface-Active Substances on Pathogenic Enterobacteria in Water, (In Russian),
W77-00346 1001 5C

Relationship of Vibrio Parahaemolyticus in Oysters, Water, Sediment, and Bacteriological and Environmental Indices,
W77-00877 1002 5C

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Relation of Water Temperature to Flexibacter Columnaris Infection in Steelhead Trout (Salmo Gairdneri) Coho (Oncorhynchus Kisutch) and Chinook (O. Tshawytscha) Salmon,
W77-03048 1006 5C

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

Examination of Sewage Sludge for Enteroviruses, Volume 2,
W77-07615 1016 5B

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Inactivation by Ionizing Radiation of Salmonella Enteritidis Serotype Montevideo Grown in Composted Sewage Sludge,
W77-09880 1020 5D

Hygienic Effectiveness of Disinfection of Sewage After its Mechanical Treatment (Gigienicheskaia effektivnost' obezzarazhivaniia bytovykh stochnykh vod, proshedshikh mekanicheskuiu ochistku),
W77-10605 1021 5D

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Macrophytes and Water Purification,
W77-11694 1023 5G

Bacteriological Analyses Over the Rajka-Budapest Danube Section (Bakteriologiai vizsgalatok a Duna Rajka-Budapest kozotti szakaszan),
W77-11732 1023 5A

Bacterial and Viral Pathogens Associated with Land Application of Organic Wastes,
W77-12445 1024 5E

Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

PATHOGENIC FUNGI

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

PATHOGENS

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Pathogenic Amoebas from Brackish and Ocean Sediments, with a Description of Acanthamoeba Hatchetti, N. Sp.,
W77-10639 1021 5C

PATHOLOGICAL CHANGES

Histopathology of Gas Bubble Disease in Salmon Fingerlings,
W77-05456 1011 5C

PATHOLOGICAL PROCESS

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

PATHOLOGY

Environmental Assessment of the Alaskan Continental Shelf. Volume 10. Chemistry and Microbiology.
W77-00910 1002 6G

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Tolerance of Salmonid Eggs, Juveniles and Squawfish to Supersaturated Nitrogen,
W77-04443 1009 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

Is There a Potential for Parasitic Disease Transmission from Land Application of Sewage Effluents and Sludges,
W77-11750 1023 5E

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

PATTERN EXPERIMENTS

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

PATTERN RECOGNITION

Satellite Observations of Water Quality,
W77-07554 1015 5A

PATUXENT ESTUARY (MD)

Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

PATUXENT RIVER

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

PATUXENT RIVER BASIN (MARYLAND)

Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

PATUXENT RIVER (MD)

Seasonal Interactions Among Estuarine Primary Producers and Herbivores,
W77-03387 1007 2L

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

PAWTUCKAWAY STATE PARK (NH)

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

PAWTUXET RIVER (RHODE ISLAND)

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

PCB

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

PCB BIOACCUMULATION

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

PCB TOXICITY

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

PEACH TREES

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

PEACHES

Irrigation Requirements of Mature Peach Trees Under Microjets (Besproeiingsbehoeftes van volwasse perskebome onder mikrospuite),
W77-10079 1020 3F

Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

PEAK DISCHARGE

Floods of March-April 1973 in Southeastern United States,
W77-00434 1001 2E

Maximum Known Stages and Discharges of New York Streams Through 1973,
W77-00485 1001 7C

Maximum Peak Flow for Selected Return Periods for Watersheds West of the Continental Divide in Idaho and Montana,
W77-01435 1003 4D

Flood Plain Information: Contoocook River and Nubanusit Brook, Peterborough, New Hampshire.
W77-03177 1007 4A

Quantity Aspects of Urban Stormwater Runoff,
W77-04732 1010 4A

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-04736 1010 2E

Flood of June 27, 1975, in City of Ames, Iowa,
W77-05276 1011 2E

Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

Flood Plain Information: Wahoo Creek, Cottonwood Creek, Dry Run Creek and Sand Creek, Wahoo, Nebraska,
W77-06587 1013 4A

Techniques for Estimating Flow Characteristics of Wyoming Streams,
W77-07495 1015 4A

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Flood Plain Information: Allegheny River, Venango County, Pennsylvania,
W77-07641 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

Small-Stream Flood Investigations in Minnesota, October 1958 to September 1975,
W77-08481 1017 2E

Flood Plain Information: Ashuelot River, City of Keene, New Hampshire.
W77-08615 1018 4A

Special Flood Hazard Report: Buffalo Creek, Meadow Grove, Nebraska.
W77-08616 1018 4A

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

The Effect of Rainfall Intensity on Storm Flow and Peak Discharge from Forest Land,
W77-09125 1019 2B

Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

Flood Plain Information: Vermilion River and Tributaries, Lafayette, Louisiana.
W77-09366 1019 4A

Flood Plain Information: Allegheny River and Lillibridge Creek, Borough of Port Allegany, Pennsylvania.
W77-09369 1019 4A

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Flood Plain Information: Bayou Plaquemine Brule, Church Point, Louisiana.
W77-10912 1022 4A

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

Flood Plain Information: Bayou Fountain, Baton Rouge, Louisiana.
W77-10921 1022 4A

Special Flood Hazard Information: Alameda and Las Cruces Arroyos, Las Cruces, New Mexico.
W77-11834 1023 4A

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

Flood Plain Information: River Rouge, Michigan, Main, Evans Ditch, and Franklin Branches in Wayne and Oakland Counties.
W77-11838 1023 4A

Flood Plain Information: Upper River Rouge, Farmington, Michigan.
W77-11839 1023 4A

Flood Plain Information: Atlanta, Texas: Black Bayou and Tributaries.
W77-11840 1023 4A

Flood Plain Information: Chadakoin River, Jamestown-Falconer, New York.
W77-11841 1023 4A

Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

Flood Plain Information: Androscoggin and Dead Rivers, Leeds, Maine.
W77-11844 1023 4A

Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

Flood Plain Information: Saco River, Fryeburg, Maine.
W77-11847 1023 4A

Linear and Nonlinear Models for Peak Flow Forecasting,
W77-12083 1023 4A

Maximum Floodflows in the Conterminous United States,
W77-12156 1023 7C

Knife River Flood Hazard Analyses, Mercer County, North Dakota.
W77-12592 1024 2E

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Flood Plain Information: Oneida Creek, New York.
W77-12594 1024 4A

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

Flood Plain Information: Dorchester, Whitman, Queset, Black, Beaver, Poquanticut, Mulberry and Gowards Brooks, Easton, Massachusetts.
W77-12603 1024 4A

Flood Plain Information: Little Androscoggin River: Auburn, Poland, Mechanic Falls, and Minot, Maine.
W77-12604 1024 4A

Flood Plain Information: Millers River and North Branch: Winchendon, Massachusetts.
W77-12605 1024 4A

Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

PEAK DISCHARGES

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

PEAK FLOW

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

PEAK FLOWS

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

PEAK LOADS

Sequent Peak Procedure: Minimum Reservoir Capacity Subject to Constraint on Final Storage,
W77-10781 1021 4A

PEAK RUNOFF

Rural Domestic Water System Peak Flows and Design Innovations,
W77-10176 1021 8B

PEAK SHAVED DRY/WET COOLING

Future Needs for Dry or Peak Shaved Dry/Wet Cooling and Significance to Nuclear Power Plants,
W77-11848 1023 3E

PEAK STORM FLOW

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

PEAKING CAPACITY

Sequent Peak Procedure: Minimum Reservoir Capacity Subject to Constraint on Final Storage,
W77-10781 1021 4A

PEANUT HULLS

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

PEANUTS

Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

Response of Two Peanut Cultivars to Irrigation and Kylar,
W77-06092 1012 3F

Drip Irrigation of Peanuts (Arachis Hypogaea L.) on a Study Soil,
W77-11995 1023 3F

Responses of Three Peanut Cultivars to Gypsum,
W77-12129 1023 3F

PEAR

Root System of the Pear in Arid Zones, (In Russian),
W77-01595 1004 2I

PEARCE ISLAND (BRITISH COLUMBIA)

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

PEARL RIVER (MISS)

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

PEARS
The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

PEARSON TYPE 3 DISTRIBUTION
The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

PEARSON TYPE VIII DISTRIBUTION FUNCTION
Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

PEAT
Thurrock Beats Peat with Piled Pipes,
W77-02328 1005 8E

Peat Hydrology in the Hula Basin, Israel: I. Properties of Peat,
W77-05789 1012 2G

Peat Hydrology in the Hula Basin, Israel: II. Subsurface Flow Regime,
W77-05790 1012 2G

The Treatment of Waste Waters with Peat Moss,
W77-06220 1013 5D

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

Observations on a Peat Bog's Ability to Withstand Increasing Public Pressure,
W77-07139 1015 5C

The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

Hydrochemistry of the Nigula Swamp, (In Estonian),
W77-07859 1016 2H

Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

Degradation of a Nonionic Surfactant in Soils and Peat,
W77-09638 1020 5B

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Distribution of Nitrifying and Heterotrophic Microorganisms in Cutover Peats,
W77-11651 1023 5C

PEAT BOGS
Observations on a Peat Bog's Ability to Withstand Increasing Public Pressure,
W77-07139 1015 5C

PEAT PHYSICAL PROPERTIES
Methods for Analyzing the Hydrological Characteristics of Organic Soils in Marsh-Ridden Areas,
W77-06439 1013 2G

PEATLANDS
The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

PEATS
Hydrothermal State of Peat-Boggy Soils in the Extreme North, (In Russian),
W77-12890 1024 2G

PEBBLES
Acoustic Measurement of Sediment Transport,
W77-07338 1015 2J

A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

PECATONICA RIVER (WIS)
Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

PECOS RIVER COMPACT
Pecos River Compact.
W77-07262 1015 6E

PECOS RIVER (N MEX)
Minimizing the Salt Burden of Pecos River Irrigation Drainage Water,
W77-12754 1024 5G

PECOS RIVER (TES-N MEX)
Pecos River Compact.
W77-07262 1015 6E

PECOS VALLEY (TEX)
Irrigation with Saline Water in the Pecos Valley of West Texas,
W77-12746 1024 3C

PEDAL SOILS
Water Movement Through Pedal Soils: I. Saturated Flow,
W77-10313 1021 2G

Water Movement Through Pedal Soils II. Unsaturated Flow,
W77-10314 1021 2G

PEKILO PROCESS
Utilization of the Spent Sulfite Liquor Components in the Pekilo Protein Process and the Influence of the Process upon the Environmental Problems of a Sulfite Mill,
W77-03816 1008 5D

PELAGIAL DEPTH
Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

PELAGIC AREAS
The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

PELAGIC ECOSYSTEMS
Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

PELAGIC ENVIRONMENT
Characteristics of the Pelagic Environment of the Brackish-Water Lagoons of Bages-Sigean and Salses-Leucate During the Summer of 1974, (In French),
W77-05304 1011 5C

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

PELAGIC TAR
Pelagic Tar,
W77-00969 1002 5B

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

PELAGIC WATERS
Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

PELAGIC ZOOPLANKTON
Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

PELICANS
The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

PELOPIINAE
Chironomid Fauna of the Upper Course of the Iseti River, (In Russian),
W77-09048 1018 5C

PELTIGERA
Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

PELYAD
Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

PEMBINA RIVER BASIN
Model Water Resources Program,
W77-01079 1003 6E

PENALTIES (LEGAL)
Waters--Fish and Game--Deposit of Pesticides in Public Waters.
W77-01042 1002 6E

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

United States V Norfolk Dredging Company ($3,000 Penalty for Minor Oil Spill not Excessive).
W77-06058 1012 6E

Tri-County Landfill Company V Illinois Pollution Control Board (Landfills Polluting Waters Termed Hazards).
W77-06066 1012 6E

Waters; Penalties, Violations,
W77-06078 1012 6E

Oil Pollution Liability (Hearings on HR 9294, 10969, 10363, 10756 Which Provide a Comprehensive System of Liability for Oil Spill Damage and Cleanup Costs),
W77-06555 1013 5G

A New Measure of Damage for Wrongfully Appropriated Water,
W77-08361 1017 4A

Spill Penalties Draw Criticism,
W77-08973 1018 6E

Control of Pollution by Oil and Hazardous Substances, Discharge Removal.
W77-08987 1018 5G

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

Criminal Prosecution for Water Pollution.
W77-11192 1022 6E

Prohibition Against Pollution.
W77-12908 1024 6E

PENETRATION
Non-Penetrating Well in a Semi-Infinite Medium with Non-Linear Flow,
W77-09114 1019 2F

PENIUM GONATOZYGIFORME
Freshwater Algae of Southern Africa:3. Pleurotaenium Breve Raciborski Var. Engleri (Schmidle) Krieger and Penium Gonatozygiforme Claassen Sp. Nov. from Transvaal,
W77-11546 1023 5C

PENMAN'S EQUATION
On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

PENN STATE URBAN RUNOFF MODEL
Penn State Urban Runoff Model--User's Manual,
W77-07797 1016 4D

PENNSYLVANIA
Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

Environmental Impact of Stream Channelization,
W77-00375 1001 6G

Systematic Approach to Water Resources Plan Formulation.
W77-00532 1002 6A

Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

Sediment Runoff During Highway Construction,
W77-00847 1002 4C

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

Commonwealth V. Barnes and Tucker Company (Public Nuisance of Acid Mine Drainage).
W77-03519 1007 6E

Demonstration of a State Water Quality Management Information System,
W77-04021 1008 5G

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

Water Resources Data for Pennsylvania, Water Year 1975--Volume 2. Susquehanna and Potomac River Basins.
W77-04228 1009 7C

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Surface Soil Moisture Within a Watershed--Variations, Factors Influencing, and Relationship to Surface Runoff,
W77-04253 1009 2G

Aquatic Plants: A Guide for Their Identification and Control in Pennsylvania,
W77-04570 1009 5G

Determining Suspended Sediment Loads from Turbidity Records,
W77-04988 1010 2J

Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

Special Watershed Projects.
W77-05292 1011 4D

Disaster Recovery Planning Report.
W77-05293 1011 6F

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Pennsylvania Uses Liners to Control Ground Water Contamination from Landfill Operations,
W77-06172 1013 5G

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Evaluation of Arsenic Concentrations in the Tulpehocken Creek Basin,
W77-06330 1013 5B

A Method to Determine Personal Values,
W77-06354 1013 6B

Evaluation of the Environmental Impact to Appalachian Pennsylvania Waters of the 1972 Flood and Subsequent Stream Channelization with Future Policy Recommendations.
W77-06676 1014 4A

Flood Management Study.
W77-06952 1014 6F

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

Time-Distribution of Storm Rainfall in Pennsylvania,
W77-07022 1014 2B

Predictability of Effects of a Severe Local Storm in Pennsylvania,
W77-07369 1015 2B

Flood Plain Information: Allegheny River, Warren County, Pennsylvania,
W77-07640 1016 4A

Flood Plain Information: Allegheny River, Venango County, Pennsylvania,
W77-07641 1016 4A

United States V Osage Company (Removal of Sunken Boats Obstructing Navigable Waters Owner's Responsibility).
W77-08150 1017 6E

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

City of York V. Pennsylvania Department of Environmental Resources (Delegation of

Authority Under the Pennsylvania Waste Management Act).
W77-08403 1017 6E

Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

Flood Plain Information: Allegheny River and Lillibridge Creek, Borough of Port Allegany, Pennsylvania.
W77-09369 1019 4A

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

Flood Plain Information: Frankstown Branch Juniata River,
W77-11835 1023 4A

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

Law of Ground Water in Pennsylvania,
W77-12887 1024 4B

PENOBSCOT RIVER (ME)
Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

PENRHYN BAY
The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

PENSACOLA ESTUARY (FLA)
Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

PENTACHLOROPHENOL
Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Studies on the Metabolism of Chlorophenols in Fish-IX, Isolation and Identification of Pentachlorophenyl-B-Glucoronide Accumulated in Bile of Goldfish,
W77-10255 1021 5C

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

PENTWATER HARBOR
Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

PEPTONE
Concentration of Organic Substances in Water as a Factor Controlling the Occurrence of Some Ciliate Species,
W77-03839 1008 5C

PERCENT INSECTICIDE RECOVERY
Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

PERCENT SATURATION
Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

PERCENTAGE OF UNIONIZED AMMONIA
Ammonia Toxicity,
W77-10946 1022 5C

PERCH
The Invasion of Rate of Fish Yearlings with Plerocercoids of the Broad Fish Tapeworm in the Kama Water Reservoir, (In Russian),
W77-00541 1002 2I

Effects of Pressure on Survival of Six Species of Fish,
W77-07424 1015 5C

PERCHED WATER
Hydrodynamics of Perched Mounds,
W77-01141 1003 4B

Contribution of Lateral Soil Water Movement Above a Fragipan to Streamflow,
W77-10312 1021 2G

PERCHES
Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

PERCOLATING WATER
Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

Law of Ground Water in Pennsylvania,
W77-12887 1024 4B

PERCOLATION
Let's Consider Land Treatment, Not Land Disposal,
W77-00614 1002 5D

Percolation of Surface-Applied Water in the Field,
W77-01137 1003 2G

Comparison of Drainage Equations for the Gravity Drainage of Stratified Profiles,
W77-04248 1009 2G

Groundwater Pollution From a Septic Tile Field,
W77-04728 1010 5B

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

Percolating Effluent into Ground Reduces Color at Missoula Mill,
W77-04824 1010 5D

Nitrogen Removal from Secondary Effluent by a Laboratory Soil Column,
W77-08607 1018 5B

Suitability of New England Soils in Accepting Waste Effluents, Phase II,
W77-09064 1018 5E

Herbicide Transport in Soil Under Center Pivot Irrigation Systems,
W77-10366 1021 5B

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Migration of Landfill Leachate Through Glacial Tills,
W77-10968 1022 5B

Percolation Theory of Residual Phases in Porous Media,
W77-11822 1023 2G

All-Plastic Suction Lysimeters for the Rapid Sampling of Percolating Soil Water,
W77-12005 1023 5A

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

Nitrate-N Percolation Through Irrigated Sandy Soil as Affected by Water Management,
W77-12830 1024 5B

PERCOLATION THEORY
Percolation Theory of Residual Phases in Porous Media,
W77-11822 1023 2G

PERCUSSION DRILLING
Bailing,
W77-04288 1009 8C

PERENNIAL RYEGRASS
Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

PERENNIAL STREAMS
Movement of Cobbles in a Gravel-Bed Stream During a Flood Season,
W77-12318 1024 2J

PERFORMANCE
The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Considerations for Electrical Design in Sewage Lift Stations,
W77-04706 1010 8C

Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Optimal Size of Regional Wastewater Treatment Plants,
W77-05929 1012 5D

Investigation of Dynamic Performance of Waste Water Treatment Plants,
W77-08094 1016 5D

Analysis of Activated Sludge Process Performance,
W77-08096 1016 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

Reverse Osmosis on Secondary Sewage Effluent: The Effect of Recovery,
W77-08523 1017 5D

Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

The Trials and Tribulations of Treatment Works in Lower Trent.
W77-08593 1017 5D

Predicting Performance of Pipe Culverts Buried in Soil,
W77-08622 1018 8B

Waste Water Aeration System Produces Small Bubbles.
W77-08630 1018 5D

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

Upgrading a Complex Mix Activated Sludge Wastewater Treatment Plant,
W77-09854 1020 5D

Hydrogen Peroxide Subdues Waste Water Plant Problems.
W77-09858 1020 5D

Making Sure of Pipeline Performance,
W77-10068 1020 8A

Sludge Disposal Strategy: Processes and Costs,
W77-10609 1021 5E

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

Keep Maintenance in Mind When Designing or Using Pumps.
W77-11488 1022 5D

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

PERFORMANCE TESTS

Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

PERICARDIAL FLUID

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

PERIDINIUM CINCTUM

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

PERIOD OF GROWTH

The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

PERIODIC ADDITION

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

PERIODIC-STOCHASTIC MODELS

Effect of Misestimating Harmonics in Periodic Hydrologic Parameters,
W77-12550 1024 2E

PERIPHERAL NEUROPATHY

An Incident of Industrially Related Toxic Peripheral Neuropathy,
W77-02838 1006 5A

PERIPHYTON

The Effects of Various Tertiary Treatment Nutrient Removal Schemes on Periphyton Communities in Model Laboratory Streams,
W77-00005 1001 5C

Fort River Ecosystem: Productivity of the Periphyton Component,
W77-00149 1001 5C

Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

Study of Periphyton Productivity in the Novosibirsk Reservoir, (In Russian),
W77-02915 1006 5C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

Studies on the Algal Populations of the Saale River Near Jena: II. Comparison of the Seasonal Population Dynamics Above and Below the City, (In German),
W77-05606 1012 5C

Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

Comparison of Primary Productivity (14C) per Unit Biomass Between Phytoplankton and Periphyton in the Ottawa River Near Ottawa, Canada,
W77-07454 1015 5C

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

PERIPHYTON ALGAE

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

PERITRICHA

Urceolarids (Ciliata, Peritricha) from Fishes of the Urals, (In Russian),
W77-09936 1020 2H

PERKINS CREEK (MN)

West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

PERMAFROST

A Conceptual Model of Offshore Permafrost,
W77-00094 1001 2C

PERMAFROST

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Strain Rate Effect on the Strength of Frozen Silt,
W77-02804 1006 8D

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

Artic Casing Pack,
W77-04286 1009 8G

Experience in Construction of a Frozen-Type Dam in Yakutiya,
W77-06529 1013 8A

Suprapermafrost Water,
W77-06630 1014 2C

Oil Spill at Deception Bay, Hudson Strait,
W77-07731 1016 5G

PERMEABILITY

Effects of Near-Well Permeability Variation on Well Performance,
W77-00437 1001 4B

Parameter Identification in an Inhomogeneous Medium with the Finite-Element Method,
W77-00638 1002 2F

Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Viscosity of Interlayer Water in Montmorillonite,
W77-01326 1003 2G

Effect of High-Pressure Deformation on Permeability of Ottawa Sand,
W77-02021 1004 2F

An Effect of Permeability on Sand Transport by Waves,
W77-02508 1005 2L

Detection of Subsurface Solution Cavities in Florida Using Electrical Resistivity Measurements,
W77-02517 1005 2F

Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

Permeability and Ground Water Circulation in the Madison Aquifer Along the Eastern Flank of the Bighorn Mountains of Wyoming,
W77-03122 1007 2F

Low-Cost Chemical Cuts Sand Problems in Heavy Oil Field,
W77-04124 1009 8G

Using Unconformities to Locate Wells,
W77-04133 1009 8E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

The Simulation of Whole Core Permeameter Flow Geometry,
W77-05933 1012 2F

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Transference: A Comprehensive Parameter Governing Permeation of Solutes Through Membranes,
W77-08231 1017 3A

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Irrigation with Brackish Water: Chemical and Hydraulic Changes in Soils Irrigated with Brackish Water Under Cotton Rotation,
W77-11071 1022 3C

Penetrability and Sorptivity in Calcareous Soils,
W77-11095 1022 2G

Water and Salt Flow Through Compacted Clays: I. Permeability of Compacted Illite and Montmorillonite,
W77-11234 1022 2G

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

Concrete Properties at Ocean Depths,
W77-11779 1023 8F

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

PERMEAMETERS

Analysis of Permeameter Data to Obtain Parameters of Non-Darcy Flow,
W77-05148 1011 2G

Water Intake by a Water-Filled Plexiglas Permeameter Cell,
W77-11617 1023 2G

PERMETHRIN

Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

PERMISSIBLE LEVELS

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

PERMIT COMPLIANCE PROCESS

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

PERMITS

A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Train V Colorado Public Interest Research Group, Inc. (Conflict of Federal Water Pollution Control Act and the Atomic Energy Act).
W77-00987 1002 6E

Redevelopments on the Oceanfront,
W77-01100 1003 6E

Coastal Construction and Other Physical Activities Seaward of the Mean High Water Line,
W77-01102 1003 6E

Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Toxicity Index for Permits,
W77-01321 1003 5A

Evaluation Report: Water Resources Appraisal for Hydroelectric Licensing. Dayton Development, Project No. 287, Fox River, Wisconsin and Illinois.
W77-01511 1003 6F

The Editor's Notebook: About Discharge Regulations.
W77-01541 1003 5G

History of Ocean Dumping in the Gulf of Mexico,
W77-02668 1006 5E

Colorado Water Quality Control Act.
W77-03490 1007 6E

Floating Timber on Streams.
W77-03492 1007 6E

Carlson V Village of Worth (Preemption of Local Regulation of Sanitary Landfill by Environmental Protection Act).
W77-03497 1007 6E

Virginia State Program for Control of Discharge of Pollutants to Navigable Waters; Approval.
W77-03527 1007 5G

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

Effluent Charges and Licenses Under Uncertainty,
W77-03959 1008 5G

Watergate Village: A Case Study of a Permit Application,
W77-04349 1009 6E

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

Environmental Protection Agency: General Permits for the Transportation for Dumping, and the Dumping of Material into Ocean Waters.
W77-04375 1009 5G

Appropriation and Use of Water (Permits and Licenses; Construction of Works).
W77-04380 1009 6E

EPA Sets Final Rules on Feedlot Permits.
W77-04603 1010 5G

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

Jurisdiction and Grounds for Denial by State and Federal Agencies of Dredge and Fill Operations,
W77-04923 1010 5G

Jefferson County V Johnson (Comprehensive Land Management and Use Program in Flood-Prone Areas Act),
W77-04931 1010 6E

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

Liability of Governmental Entity for Issuance of Permit for Construction Which Caused or Accelerated Flooding,
W77-06063 1012 6E

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

Sierra Club V Leslie Salt Company (Defining Navigable Waters Jurisdictionally under Rivers and Harbors Appropriation Act of 1899 and the Federal Water Pollution Control Act of 1972),
W77-06573 1013 6E

Looking Ahead (Federal Water Pollution Contrgl Act of 1972).
W77-07235 1015 6E

Guidelines Establishing Test Procedures for the Analysis of Pollutants,
W77-07252 1015 5A

Appropriation of Water--Permits, Certificates and Licenses--Survey.
W77-07265 1015 6E

Bunger v. Uncompahgre Valley Water Users Association (Conditional Water Permits).
W77-07267 1015 6E

Rappl and Hoenig Company, Incorporated v. New York State Department of Environmental Conservation (Applicability of Fresh Water Wetlands Act to Artificially Created Wetlands).
W77-07269 1015 6E

Amdel Pipeline Inc V State of Texas (Statutory Requirement of Payment for Spoil Dredged from Bottom of Approaches to Corporate Loading Docks).
W77-07271 1015 6E

United States V Cutter Laboratories, Inc (Civil Liability of a Permittee for Whom no Industrial Effluent Limitations or Guidelines Exist).
W77-07274 1015 6E

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Operation and Impact of NPDES in Region II, Part I,
W77-08117 1017 5G

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

Reservoirs,
W77-08158 1017 6E

American Petroleum Institute V Environmental Protection Agency (Challenge to EPA Standards for Refineries Under the FWPCA Amendments of 1972).
W77-08394 1017 6E

Appropriation of Water for Power (Hydroelectric Power Projects).
W77-08395 1017 6E

Complying with Discharge Regulations,
W77-08954 1018 5G

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

Changes Urged at NCWQ Hearings,
W77-08967 1018 6E

Enforcement of Municipal Permits: Portent of Problems,
W77-08971 1018 6E

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

In Re City of White Bear Lake (Standard for Granting of Permits Under the Minnesota Water Management Law).
W77-08993 1018 6E

Mianus River Preservation Committee V. Administrator, Environmental Protection Agency (Jurisdiction of Federal Appeals Court for Permits Issued by State Agency Under NPDES).
W77-09001 1018 6E

Commonwealth of Massachusetts V. United States Veteran's Administration (Notice of Suit Provisions of the FWPCA; Federal Common Law Nuisance Actions).
W77-09002 1018 6E

Mc Cormick V Lawrence (Constitutionality of New York Statute Aimed at Promoting Governmental Interest in Preserving Appearance of an Area).
W77-09004 1018 6E

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

Permit Program Regulations for Agricultural Activities, (NPDES), (Proposed).
W77-09560 1019 6E

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

Federal and State Controls Over Land/Water Development in Navigable and Non-Navigable Waters,
W77-10470 1021 6E

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

PERMITS

Every Pond and Puddle--Or, How Far Can the Army Corps Stretch the Intent of Congress,
W77-11165 1022 6E

Florida Environmental Permitting and Wetlands Protection Act (Proposed Legislation).
W77-11177 1022 6E

Urban Renewal Agency of City of Monterey V California Coastal Zone Conservation Commission (Municipal Corporation Exempt from Coastal Zone Conservation Act Permit Requirement).
W77-11178 1022 6E

Criminal Prosecution for Water Pollution.
W77-11192 1022 6E

Sections 9 and 10 of the Rivers and Harbors Act of 1899: Potent Tools for Environmental Protection,
W77-11470 1022 6E

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

PERMSELECTIVE MEMBRANES

Forward Osmosis Extractors,
W77-08340 1017 3A

Ion-Permselective Membranes,
W77-11075 1022 3A

PERRY CREEK (IA)

Flood Plain Information: Sioux City, Iowa, Volume I, Perry Creek,
W77-04214 1009 4A

PERSIAN GULF

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

PERSISTENCE

Bioconcentration of 14C-Pesticides by Bluegill Sunfish During Continuous Aqueous Exposure,
W77-01320 1003 5C

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Modeling Monthly Hydrologic Persistence,
W77-05177 1011 2E

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

The Persistence of Poliovirus in Activated Sludge Treatment,
W77-10583 1021 5D

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

PERSISTENCE OF SUPERSATURATION

Sources of Gas Supersaturation in Water,
W77-06100 1012 5B

PERSONAL CONTACT

Water Resources Technology Transfer -- A Guide,
W77-04346 1009 10F

PERSONAL VALUES

A Method to Determine Personal Values,
W77-06354 1013 6B

PERSONNEL

Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

PERTURBATION

Infiltration Analysis and Perturbation Methods 2. Horizontal Absorption,
W77-04750 1010 2G

Infiltration Analysis and Perturbation Methods 3. Vertical Infiltration,
W77-04751 1010 2G

A Comparison of Techniques for Solving the Diffusion Equation with an Exponential Diffusivity,
W77-05162 1011 2G

A Perturbation Solution for a Nonlinear Diffusion Equation,
W77-05343 1011 2G

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

PERTURBATION METHOD

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

PERTURBATION TECHNIQUES

On Solving the Infiltration Equation--A Comparison of Perturbation and Iterative Techniques,
W77-05348 1011 2G

PERU

Abyssal Circulation of the Southeastern Pacific and some Geological Implications,
W77-01611 1004 2L

Preliminary Study on Some Saline Soils of Peru Using a Hydrophobic Emulsion,
W77-12044 1023 3C

PERU-CHILE TRENCH (SO AMER)

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

PERU (MAJES IRRIGATION SCHEME)

Through the Andes.
W77-09687 1020 8A

PERVIOUS SOILS

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

PEST CONTROL

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

PESTICIDE

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

PESTICIDE ANALYSIS

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

PESTICIDE KINETICS

Substitute Chemical Program: Initial Scientific and Minieconomic Review of Malathion.
W77-00192 1001 5C

Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

PESTICIDE PERSISTENCE

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

PESTICIDE REMOVAL

Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewater,
W77-12139 1023 5D

PESTICIDE RESIDUES

Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Waseroorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Partitioning and Uptake of Pesticides in Biological Systems,
W77-03659 1008 5C

Chlorinated Hydrocarbons in Coastal Marine Ecosystems,
W77-03661 1008 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Behavior of Pathogenic and Sanitary-Indicator Bacteria Under Conditions of Water Pollution by Organophosphorus Pesticides, (In Russian),
W77-04099 1008 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Prognosis of Pesticide Stability in Water, Soil and Plants, (In Russian),
W77-04600 1009 5B

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

The Effect of the Use of Pesticides and Fertilizers in the Water Protection Zone with Sources of Artificial Replenishment of Underground Water Reserves, (In Russian),
W77-07107 1015 5B

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Control of Agricultural Water Pollution: A Continuing Regulatory Dilema,
W77-07233 1015 5G

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

The Distribution of Residual Quantities of DDT in the Organs and Tissues of Fish of the Kiev Reservoir, (In Russian),
W77-07572 1015 5B

Cumulation, Desorption and Mechanism of Action of Organochlorine Toxic Chemicals on Cestodes of Fishes, (In Russian),
W77-07598 1015 5C

Determination of Morestan in Water, Soil, and Cucumbers by Thin-Layer Chromatography, (In Russian),
W77-07688 1016 5A

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Picloram Degradation in Soils as Influenced by Soil Water Content and Temperature,
W77-09644 1020 5B

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Biological Effects and Persistence of Methyl Parathion in Clear Lake, California,
W77-10063 1020 5C

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Entomological Special Study No. 44-019-75/76, Pesticide Analysis of Surface Water Samples Collected in the Department of the Army Pesticide Monitoring Program 1 Sep 1972-Dec 1974,
W77-10945 1022 5A

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewater,
W77-12139 1023 5D

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

PESTICIDE TOXICITY

Environmental Poisons.
W77-01547 1003 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

PESTICIDES

Substitute Chemical Program: Initial Scientific and Minieconomic Review of Malathion.
W77-00192 1001 5C

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

The Role of Sediment as a Modifying Factor in Pesticide-Algae Interactions,
W77-00713 1002 5C

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

The Relationship of Malathion and its Metabolites to Fish Poisoning,
W77-00885 1002 5C

Waters--Fish and Game--Deposit of Pesticides in Public Waters.
W77-01042 1002 6E

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Bioconcentration of 14C-Pesticides by Bluegill Sunfish During Continuous Aqueous Exposure,
W77-01320 1003 5C

A Comparison of Oil and Flit MLO for Catch Basin Treatment,
W77-01357 1003 5G

Effect of Some Pesticides on the Ability of the Filteration of Eel Culture Using Recirculating Filter System, (In Korean),
W77-01497 1003 5C

Environmental Poisons.
W77-01547 1003 5C

Effect of Abate (Diphos) on the General Sanitary Conditions of Water Bodies: II, (In Russian),
W77-01607 1004 5D

Degradation of Pesticides by Algae,
W77-01797 1004 5C

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

Distributions of 2,4-D and Water in Soil During Infiltration and Redistribution,
W77-02542 1005 5B

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Histopathological Effects of Pesticides and Related Chemicals on the Livers of Fishes,
W77-02695 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas which May Contribute to Drinking Water Problems,
W77-03567 1007 5B

Adsorption of C14-DDT to Particle Surfaces,
W77-03658 1008 5B

Water-Sediment Distribution of Chlorinated Hydrocarbon Pesticides in Various Environmental Conditions,
W77-03660 1008 5B

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Prognosis of Pesticide Stability in Water, Soil and Plants, (In Russian),
W77-04600 1009 5B

Polluted Groundwater: A Review of the Significant Literature,
W77-04631 1010 5B

Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

DDT Residues in Benthic Invertebrates and Demersal Fish in St. Margaret's Bay, Nova Scotia,
W77-05649 1012 5C

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Control of Water Pollution from Cropland, Volume 1--A Manual for Guideline Development,
W77-06097 1012 5G

Effects of Some Insect Development Inhibitors on Mosquito Larvae,
W77-06283 1013 5G

Pesticides Data-Collection Activities of the U.S. Geological Survey in Texas,
W77-06344 1013 5B

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

The Effect of Soluble Organic Matter On the Utilization of Phenoxy Herbicides by Pseudomonas sp.,
W77-08504 1017 5C

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

The Effect of Temperature and Soil Water on Conversion of DDT to DDE in Soil,
W77-09289 1019 5B

Influence of Pesticides on Denitrification in Soil and With an Isolated Bacterium,
W77-09445 1019 5B

Economic Assessment of Proposed Toxic Pollutant Effluent Standards for Manufacturers and Formulators of Aldrin/Dieldrin, DDT, Endrin and Toxaphene.
W77-09478 1019 5G

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Picloram Degradation in Soils as Influenced by Soil Water Content and Temperature,
W77-09644 1020 5B

Predicting 2,4,5-T Movement in Soil Columns,
W77-09649 1020 5B

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

The Effect of Mirex on the Burrowing Activity of the Lugworm (Arenicola Cristata),
W77-09675 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Hematological Changes in Fingerling Channel Catfish Exposed to Malachite Green,
W77-11343 1022 5C

The Depth of Penetration with Water of the Pesticide BHC in the Presence of Sulfanol into the Ground, (In Russian),
W77-11523 1023 5B

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

Germicidal Solutions and Methods for Preserving and Purifying Milk, Other Beverages, Foods, Water and Sewage Effluent,
W77-12928 1024 5D

PESTICIDES RESIDUES
Determination of Estimated Maximum Permissible and Maximum Residual Concentrations of Pesticides in Environmental Objects, Based on the Principles of Complex (Integral) Standardization, (In Russian),
W77-01575 1004 5G

Organochlorine Residues in Maternal Blubber, Milk, and Pup Blubber from Grey Seals (Halichoerus Grypus) from Sable Island, Nova Scotia,
W77-12019 1023 5B

PETAWAWA RIVER (CANADA)
Mathematical Models Resulting from Statistical Analysis of the Mean Monthly Flow,
W77-07669 1016 2E

PETERBOROUGH (ONTARIO)
Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

PETROCHEMICAL POLLUTANTS
Researches on the Biodegradability and Toxicity of Some Pollutants Existing in Waste Waters Discharged by the Petrochemical Industry, (In Hungarian),
W77-01581 1004 5C

PETROCHEMICAL WASTES
On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Hygienic Effectiveness of Measures for Decontaminating Effluents at Petrochemical Plants, (In Russian),
W77-07069 1014 5D

PETROGRAPHY
Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

PETROLEUM
Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

PETROLEUM BIODEGRADATION
The Conditions for Biodegradation of Petroleum Hydrocarbons at Sea,
W77-04042 1008 5B

PETROLEUM DEGRADING ALGAE
Petroleum-Degrading Achlorophyllous Alga Prototheca Zopfi,
W77-04062 1008 5A

PETROLEUM DERIVATIVES
International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

PETROLEUM HYDROCARBON METABOLISM
Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

PETROLEUM HYDROCARBONS
Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Hydrocarbons in the Ocean,
W77-05139 1011 5B

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

PETROLEUM OXIDIZING BACTERIA
Self-Purification in the Coastal Waters of the Black Sea, (In Russian),
W77-07592 1015 5C

PETROLEUM PRODUCTION
Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

PETROLEUM REFINERS
Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

PETROLEUM REFINERY EFFLUENTS
Designing Parallel-Plates Separators,
W77-06222 1013 5D

PETROLEUM REFINING
Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

PETROLEUM RESOURCES
The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

PETROLEUM TOXICITY
The Effect of Dissolved Petroleum Products on Some of the Aspects of Carbohydrate Metabolism in Fishes and Invertebrates,
W77-04030 1008 5C

PEYTO GLACIER (CANADA)
Canadian Glaciers in the International Hydrological Decade Program, 1965-1974, No. 4. Peyto Glacier, Alberta - Summary of Measurements,
W77-12790 1024 2C

PHAEOCYSTIS-POUCHETII
The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

PHAEODACTYLUM
Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

PHAEODACTYLUM TRICORNUTUM
Effects of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariphyceae). II. Effect of Oxygen,
W77-00721 1002 5C

Sorption of Cadmium by a Population of the Diatom Phaeodactylum tricornutum in Culture (Sorption du Cadmium par une Population de la Diatomee Phaeodactylum tricornutum en Culture),
W77-06295 1013 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

PHAEOPHYTA
Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

Long-Term Lead Accumulation in Abalone (Haliotis Spp.) Fed on Lead-Treated Brown Algae (Egregia Laevigata),
W77-06776 1014 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

PHAEOPIGMENTS
Surface Nutrients, Chlorophyll-A and Phaeopigment in Some Scottish Sea Lochs,
W77-00182 1001 5C

PHASIC DEVELOPMENT (ALFALFA)
Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

PHENALEN-1-ONE
Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

PHENANTHRAQUINONE
The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

PHENOBARBITAL
The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

PHENOL
Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

PHENOLIC COMPOUNDS
Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

PHENOLIC PESTICIDES
Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

Toxicity of Alkyldinitrophenols to Some Aquatic Organisms,
W77-10738 1021 5C

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

PHENOLIC RESINS
Resin-Coated Gravel is Used to Help Control Sand,
W77-08316 1017 8G

PHENOLOGY
Water Stress and Phenology in Wheat,
W77-11427 1022 3F

PHENOLS
Biodegradability of Phenolic Compounds (Biodegradabilita di composti fenolici),
W77-00328 1001 5D

Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

Structure-Activity Relationships Applied,
W77-01314 1003 5C

Evaluation of the Self-Purifying Ability of Waters of the Lower Don, (In Russian),
W77-01569 1004 5G

Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W77-01669 1004 5B

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Toxicological Characteristics of Acute Phenol Intoxication in Some Freshwater Worms, (In Russian),
W77-02237 1005 5C

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Chemical Composition and Methods for Purifying Phenolic Waste Waters Resulting from Rapid Thermolysis of Lignites of the Irsha-Borodino and Moscow Regions,
W77-02993 1006 5D

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

The Kinetics of Adsorption of Phenols by Granular Activated Carbon,
W77-03149 1007 5D

Model Studies in Aqueous Chlorination: The Chlorination of Phenols in Dilute Aqueous Solutions,
W77-03458 1007 5A

Dynamique de Degradation du Phenol Dans le Fleuve Saint-Laurent,
W77-03665 1008 5B

Microbial Processes of Phenol Degradation in the Volga and its Reservoirs, (In Russian),
W77-04064 1008 5C

Gas Chromatography-Mass Spectrometry of Chlorophenols in Spent Bleach Liquors,
W77-04806 1010 5A

Determination of Phenols at Residual Levels by Ultraviolet Electronic Spectra (Determinarea fenolilor din apele reziduale cu ajutorul spectrelor electronice in ultraviolet),
W77-05510 1011 5A

Toxicological Characteristics and Symptom-Complex of Acute Phenol Intoxication of Certain Freshwater Crustaceans and Mollusks, (In Russian),
W77-05607 1012 5C

Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

Concentration and Determination of Trace Organic Pollutants in Water,
W77-07098 1014 5A

Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

Coal Distn. Waste Liquor Purificn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

The Microbial Degradation of Aromatic Petroleum Products,
W77-08759 1018 5B

Alternative Methods of Phenol Wastewater Control,
W77-09419 1019 5D

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Toxicity of Alkyldinitrophenols to Some Aquatic Organisms,
W77-10738 1021 5C

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

Effects of Two Chlorinated Phenols on the Spontaneous Impulse Activity of the Abdominal Tonic Motor System in the Crayfish (Astacus Fluviatilis L.),
W77-12856 1024 5C

PHENOXYETHANOL

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

PHENYLMERCURY

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

PHILADELPHIA (PA)

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

PHILADELPHIA (PENN)

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

PHILIP EQUATION

The Philip Equation: A Feasible Model for Infiltration Estimation on Small Rangeland Watersheds,
W77-12274 1024 2G

PHILLIPINES

New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

PHILLIPS ISLAND (NORTH CAROLINA)

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

PHOCID SEALS

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

PHOENIX (ARIZ)

Soil Moisture Survey Experiment at Phoenix, Arizona,
W77-01914 1004 2G

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

PHOENIX (AZ)

Flood Hazard Information: Cave Creek, Arizona Canal to 19th Avenue, Phoenix, Arizona.
W77-06954 1014 4A

PHORMIDIUM LURIDUM

The Effect of Selenite on the Physiological and Morphological Properties of the Blue-Green Alga Phormidium Luridum Var. Olivacea,
W77-02546 1005 5C

The Effect of Selenium on the Ultrastructure and Physiological Properties of the Blue-Green Alga, Phormidium Luridum var. Olivacea,
W77-05729 1012 5C

PHOSOPHOTHIOATE PESTICIDES

The Effect of Exposure to a Subacute Concentration of Parathion on the General Locomotor Behavior of the Goldfish,
W77-12648 1024 5C

PHOSPHAMIDON

Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

PHOSPHATASE

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

PHOSPHATE

Phosphates in Soils Treated with Sewage Water: III. Kinetic Studies on the Reaction of Phosphates with Aluminum Compounds,
W77-07054 1014 5B

PHOSPHATE ADSORPTION (SOILS)

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

PHOSPHATE BALANCE

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

PHOSPHATE CONTENT

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

PHOSPHATE DETERMINATIONS

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

PHOSPHATE FIXATION
The Mechanism of Phosphate Fixation by Iron Oxides,
W77-00291 1001 2K

PHOSPHATE FLUX
Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

PHOSPHATE LOAD REDUCTION
Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

PHOSPHATE MINING
Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

PHOSPHATE RECYCLING
Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

PHOSPHATE REMOVAL
Sewage to Aid City Power Plant.
W77-04697 1010 5D

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

PHOSPHATE ROCKS
Supersaturation Phenomena and the Formation of Fluorapatite in Aqueous Suspensions of Phosphate Rock,
W77-03074 1006 2G

PHOSPHATE SORPTION
The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

PHOSPHATE SORPTION (SOILS)
Calcium Retention in Response to Phosphate Sorption by Soils,
W77-09291 1019 2G

PHOSPHATES
The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures. III, (In Dutch),
W77-00111 1001 5D

The Activity Concept of Phosphate-Rock Solubility,
W77-00290 1001 2K

The Mechanism of Phosphate Fixation by Iron Oxides,
W77-00291 1001 2K

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

The Potential Contribution of Fertilizers to Water Pollution,
W77-00732 1002 5B

Precipitation of Phosphate from Solution Using Aluminum Salt,
W77-00871 1002 5D

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Study on the Characteristic Distribution of Phosphate in Junhae Bay, (In Korean),
W77-01571 1004 5B

Addition of Phosphorus Salts to Effluents (Dobavlenie solei fosfora v stochnye vody),
W77-01646 1004 5D

Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Rate of Dissolution of Phosphate from Minerals and Soils,
W77-02275 1005 2G

Phosphorus Removal with Alum from Secondary Effluent,
W77-02346 1005 5D

Phosphate Reduction and Response of Plankton Populations in Kootenay Lake,
W77-02440 1005 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

Specific Role of Lime in Municipal Waste Water Treatment-Expectations and Reality (Die Spezifische Rolle Des Kalks in Der Kommunalen Abwasserreinigung-Erwartungen Und Realitaeten),
W77-03422 1007 5D

Those Nasty Phosphatic Clay Ponds,
W77-03596 1007 5G

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Water Pollution of the Rivers Flowing Eastwards into the Bay of Ise, (In Japanese),
W77-04080 1008 5B

Effects of High Levels of Inorganic Phosphate on Aquatic Organisms in Phosphate-Rich Environments,
W77-04105 1009 5C

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Negative Effects of Phosphate in Surface Waters, (In German),
W77-04593 1009 5C

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

The Effect of Sulphates and Phosphates (Industrial Wastes) on the Mucopolysaccharides Content of the Gills of the Eel Anguilla Anguilla (L.),
W77-05857 1012 5C

History of the Phosphate Detergent Ban in Indiana,
W77-06378 1013 5G

Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Phosphates in Soils Treated with Sewage Water: I. General Information on Sewage Farm, Soil, and Treatment Results,
W77-07052 1014 5G

Phosphates in Soils Treated with Sewage Water: II. Fractionation of Accumulated Phosphates,
W77-07053 1014 5B

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

PHOSPHATES

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

The Role of Phosphate in Eutrophication. Stimulation of Plankton Growth and Residence Times of Inorganic Phosphate in Lake Kinneret Water,
W77-07517 1015 5C

Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Biological Phosphate Elimination of Preliminarily Cleaned Communal Waste Water by Use of Iron Bacteria (Biologische Entphosphatung vorgereinigten kommunalen Abwassers unter Mitwirkung von Eisenbakterian),
W77-07856 1016 5D

Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

Detection of Phosphate Adsorption onto Coal Humic Acids,
W77-08294 1017 5A

Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

Concentration and Distribution of Elements in Plants and Soils Near Phosphate Processing Factories, Pocatello, Idaho,
W77-09444 1019 5B

Aspects of Phosphate Utilization by Blue-Green Algae,
W77-09505 1019 5C

Nitrate and Phosphate Content of Ground and Surface Waters of the White River Drainage, Northwest Nebraska,
W77-09743 1020 5B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

Microbial Inorganic Polyphosphates: Factors Influencing Their Accumulation,
W77-09965 1020 2G

Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

Solubility and Solubility Product of Dicalcium Phosphate Dihydrate in Aqueous Solutions and Soil Solutions,
W77-09979 1020 2G

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

Restoration of Lower St. Regis Lake (Franklin County, New York),
W77-10054 1020 5C

Tripolyphosphate and Pyrophosphate Hydrolysis in Sediments,
W77-10285 1021 5B

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Phosphate Removal Studies at Barrie Water Pollution Control Centre,
W77-10602 1021 5D

Polymers are Precisely Managed,
W77-10620 1021 5D

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment,
W77-10760 1021 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Composition of Mineral Phosphates and Conversion of Phosphorus Fertilizers in Floodplain Soils, (In Russian),
W77-11405 1022 2G

Chromatographic Investigation of Inositol Phosphate Esters in Lake Waters,
W77-11477 1022 5A

Leaching of Phosphate and Selected Cations from Sandy Soils as Affected by Lime,
W77-12172 1023 5B

Influence of Various Concentrations of Orthophosphate on the Division Rate of an Estuarine Benthic Diatom, Navicula arenaria, in culture,
W77-12186 1023 5C

Completion Report on Contribution of Fertilizers to Water Pollution,
W77-12264 1024 5B

Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

Nutrient Movement in Streamflow from Agricultural Watersheds in the Georgia Coastal Plain,
W77-12610 1024 5B

Effect of Citrate and Carbonate Based Detergents on Wastewater Characteristics and Treatment,
W77-12773 1024 5D

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

PHOSPHOMONOESTERS

The Significance of Alkaline Phosphatase in a Eutrophic Lake,
W77-04152 1009 5C

PHOSPHORESCENCE

Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

PHOSPHORIC ACID
Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

PHOSPHORITE
The Activity Concept of Phosphate-Rock Solubility,
W77-00290 1001 2K

PHOSPHOROUS
Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

PHOSPHOROUS COMPOUNDS
Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Those Nasty Phosphatic Clay Ponds,
W77-03596 1007 5G

Chemosensory Response of American Lobsters (Homarus Americanus) in the Presence of Copper and Phosphamidon,
W77-05633 1012 5C

PHOSPHORUS
The Effects of Various Tertiary Treatment Nutrient Removal Schemes on Periphyton Communities in Model Laboratory Streams,
W77-00005 1001 5C

Is Nutrient Removal Worthwhile,
W77-00065 1001 5D

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

Relationships Between Sorption and Desorption of Phosphorus by Soils,
W77-00298 1001 5B

Nutrient Status of the Sediments in Lake Mulwala, 1. Total Phosphorus,
W77-00450 1001 5C

Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

Sediment-Phosphorus Relations in Surface Runoff from Irrigated Lands,
W77-00812 1002 5B

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

Municipal Phosphorus Loadings to Lake Erie, an Evaluation Study Prepared for the Great Lakes Water Quality Board.
W77-00926 1002 5B

Nitrogen and Phosphorus in Wastewater Effluents. (A Preliminary Analysis of National Eutrophication Survey Data Collected During 1972-73 Sampling Period).
W77-00931 1002 5C

Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Effects of Phosphorus on Some Physical and Chemical Properties of Clays,
W77-02101 1005 2G

Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

Effects on the Phosphorous Situation in Lake Radasjon on Changes in the Pollution Situation, (In Swedish),
W77-02227 1005 5C

A Comparison of Nitrogen, Phosphorus, and Carbon in Sediments and Soils of Cultivated and Noncultivated Watersheds in the North Central States,
W77-02292 1005 5G

Comparison of Methods for the Determination of Total Phosphorus in Waters Containing Particulate Material,
W77-02293 1005 5A

Phosphorus Removal with Alum from Secondary Effluent,
W77-02346 1005 5D

Polymers Cut Cost of Phosphorus Removal,
W77-02374 1005 5D

Surveying America's Lakes.
W77-02375 1005 5C

Seasonal Variations in Concentrations of Nitrate and Total Phosphorus, and Calculated Nutrient Loading for Six Lakes in Western New York,
W77-02588 1006 5C

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

Temporal Variations in the Phosphorus Content of a Northern Dystrophic Lake,
W77-02824 1006 5C

Treatment of Livestock Wastes by a Barriered Landscape Water Renovation System,
W77-03116 1007 5D

Temporal Variations in Tributary Phosphorus Loads,
W77-03123 1007 5B

The Phosphorus Pollution of Waters Due to Agriculture, (In German),
W77-03134 1007 5B

Organic Phosphorus in Lakes,
W77-03210 1007 5C

Experimental Studies on Material Transactions Between Mud and Water of the Gnadensee,
W77-03370 1007 5C

Lake Phosphorus Loading Graphs: An Alternative,
W77-03377 1007 5C

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

Reaction Products of Polyphosphates and Orthophosphates with Soils and Influence on Uptake of Phosphorus by Plants,
W77-03636 1008 3F

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

The Role of Zooplankton in the Intrabiocoenotic Phosphorus Cycle and Factors Affecting Phosphorus Excretion in a Lake,
W77-05312 1011 5C

The Characterization of Phosphorus Excretion Products of a Natural Population of Limnetic Zooplankton,
W77-05313 1011 5C

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Experimental and Simulated Transport of Phosphorus Through Sandy Soils,
W77-06015 1012 5B

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

Phosphorus Uptake by Biological Slimes,
W77-06163 1013 5D

The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

A Phosphorus Budget for Lake Erie,
W77-06365 1013 5C

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

Influence of Phosphorus Removal on Solids Budget,
W77-07032 1014 5D

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. III. Filtration by Flocculation for the Elimination of Phosphorus from Communal Waste Water (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutzanforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. III. Flockungsfiltration zur Elimination von Phosphor aus Kommunalem Abwasser),
W77-07082 1014 5D

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

Relation Between the Amounts of Fertilizer and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: II. On the Relation Between Livestock Waste Per Unit Area of Basin and the Specific Load of Pollutants in Main Streams Flowing into Nishiura Lake Basin, (In Japanese),
W77-07569 1015 5B

Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Macrophytes and Phosphorus in Lake Andsjon, Central Sweden, (In Swedish),
W77-07582 1015 5C

First Information About N, P Nutrients and the Production of Lake Trasimeno, (In Italian),
W77-07593 1015 5C

Phosphorus is Removed at Low Cost,
W77-07915 1016 5D

Whole-Lake Eutrophication Experiments with Phosphorus, Nitrogen and Carbon.
W77-07965 1016 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Phosphorus: Changes in Ecosystem Metabolism from Reduced Loading,
W77-07989 1016 5C

Phosphorus Release from a Highly Eutrophic Lake Sediment,
W77-07999 1016 5C

Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast, (In Russian),
W77-08043 1016 5C

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

A Predictive Phosphorus Model for Lakes - Sensitivity Analysis and Applications,
W77-08499 1017 5C

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

The Influence of Applied Phosphorus, Manure, or Lime on Uptake of Lead from Soil,
W77-09435 1019 5B

Phosphorus Fertilization with Drip Irrigation,
W77-09443 1019 3F

Effects of Man-Induced and Natural Loading of Phosphorus and Nitrogen on the Large Swedish Lakes,
W77-09487 1019 5C

Evaluation of Process Design Parameters for Phosphorus Removal from Domestic Waste Waters by Chemical Clarification,
W77-09602 1020 5D

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

Evaluation of the Parameters of Soil Phosphorus Availability Factors in Predicting Yield Response and Phosphorus Uptake,
W77-09646 1020 2G

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Recycling of Alum Used for Phosphorus Removal in Domestic Waste Water Treatment,
W77-09847 1020 5D

Low Cost Phosphorus Removal at Reno-Sparks, Nevada,
W77-09849 1020 5D

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

Nitrogen, Phosphorus, and Potassium Utilization in the Plant-Soil System: An Analytical Model,
W77-09964 1020 2I

Microbial Inorganic Polyphosphates: Factors Influencing Their Accumulation,
W77-09965 1020 2G

Computer Simulation of Phosphorus Movement Through Soils,
W77-09970 1020 5B

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

Algal Nutrient Availability and Limitation in Lake Ontario During IFGYL. Part 1, Available Phosphorus in Urban Runoff and Lake Ontario Tributary Waters,
W77-10052 1020 5C

A Review of Biological Phosphorus Removal in the Activated Sludge Process,
W77-10211 1021 5D

Phosphorus Sorption and Desorption Characteristics of Soil as Affected by Organic Residues,
W77-10275 1021 2G

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

Great Lakes Eutrophication: The Effect of Point Source Control of Total Phosphorus,
W77-10597 1021 5C

Wastewater Phosphorus Removal Using Land Application,
W77-10606 1021 5D

Chemisorption of Phosphorus from Precleaned Municipal Sewage (Verfahren zur absorptiven Phosphorelimination aus vorgereinigtem kommunalem Abwasser),
W77-10611 1021 5D

Effect of Alum Addition on Aerobic Digestion of Activated Sludge,
W77-10653 1021 5D

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Response of Dryland Wheat to Phosphorus Fertilizer as Influenced by Profile Water Storage and Rainfall,
W77-11093 1022 3F

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Composition of Mineral Phosphates and Conversion of Phosphorus Fertilizers in Floodplain Soils, (In Russian),
W77-11405 1022 2G

Absorption and Accumulation of 32P by Oedogonium and Some Aquatic Macrophytes,
W77-11569 1023 5A

Effective Phosphorus Removal from Sewage by Biological Means,
W77-11574 1023 5D

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Effect of Soil Moisture Tension and Amendments on Yields and on Herbage N, P, and S Concentrations of Alfalfa,
W77-11942 1023 3F

Long-Term Residual Fertility and Current N-P-K Application Effects on Soybeans,
W77-11945 1023 3F

Methods for Improvement of Trickling Filter Plant Performance: Part II - Chemical Addition,
W77-12078 1023 5D

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

Sprinkler Application of P and ZN Fertilizers,
W77-12123 1023 3F

Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

Conventional Tertiary Treatment,
W77-12474 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

Drip System Applies Phosphorus.
W77-12536 1024 3F

Simulation of Phosphorus Cycling in Semiarid Grasslands,
W77-12832 1024 2G

Removal of Phosphorus from Waste Water,
W77-12950 1024 5D

PHOSPHORUS BUDGETS

A Phosphorus Budget for Lake Erie,
W77-06365 1013 5C

PHOSPHORUS COMPOUNDS

Surface Runoff Losses of Fertilizer Elements,
W77-00165 1001 5B

Phosphorus Removal from Waste Water.
W77-00575 1002 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

Controlling the Access of Nutrients from Point and Diffused Sources with Special Reference to the Pretoria/Witwatersrand/Vereeniging Region,
W77-10082 1020 5G

Use of the Commerce Clause to Invalidate Anti-Phosphate Legislation: Will It Wash. (Soap and Detergent Association V Chicago).
W77-10464 1021 6E

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Sorption and Hydrolysis of Added Organic Phosphorus Compounds in Lake Sediments,
W77-10799 1021 5B

Phosphorus Removal from Waste Water,
W77-12939 1024 5D

PHOSPHORUS CONCENTRATION MODELS. HYDRAULIC LOADING

A Predictive Phosphorus Model for Lakes - Development and Testing,
W77-08930 1018 5C

PHOSPHORUS CYCLE

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

PHOSPHORUS EXCRETION

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

PHOSPHORUS INACTIVATION
Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

PHOSPHORUS LOADING GRAPHS
Lake Phosphorus Loading Graphs: An Alternative,
W77-03377 1007 5C

PHOSPHORUS LOADINGS
Municipal Phosphorus Loadings to Lake Erie, an Evaluation Study Prepared for the Great Lakes Water Quality Board.
W77-00926 1002 5B

PHOSPHORUS LOSSES
Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

PHOSPHORUS RELEASE RATES
Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

PHOSPHORUS REMOVAL
Septic Tank Effluent Movement Through Soil,
W77-02087 1005 5B

Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

Selected References on Phosphorus Removal,
W77-02740 1006 5D

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

Engineering, Sanitary and Municipal Modeling, Identification and Control of a Dynamic and Stochastic Chemical Biological Process,
W77-05330 1011 5D

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

The Solubility of Particulate Phosphorus in the Effluent From Alum Treatment of Wastewater and Phosphorus Solutions,
W77-08500 1017 5D

PHOSPHORUS SOLUBILIZATION (SOILS)
Microbial Inorganic Polyphosphates: Factors Influencing Their Accumulation,
W77-09965 1020 2G

PHOSPHORUS SORPTION
Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

PHOSPHORUS TRANSPORT
Experimental and Simulated Transport of Phosphorus Through Sandy Soils,
W77-06015 1012 5B

PHOSPHORUS UPTAKE
Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

PHOSPHORUS UPTAKE (SOILS)
Evaluation of the Parameters of Soil Phosphorus Availability Factors in Predicting Yield Response and Phosphorus Uptake,
W77-09646 1020 2G

PHOSPHOTHIOATE
Kinetics of Chemical Degradation of Malathion in Water,
W77-04800 1010 5B

PHOSPHOTHIOATE PESTICIDES
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

PHOSPORUS REMOVAL
Phosphorus Removal from Waste Water.
W77-00575 1002 5D

PHOTOACTIVATION
Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Destruction of Coliforms in Water and Sewage Water by Dye-Sensitized Photooxidation,
W77-10618 1021 5D

PHOTOCATALYST
Heterogeneous Sensitized Decomposition of Water with Sunlight,
W77-02819 1006 2K

PHOTOCHEMICAL
Photochemical Dechlorination of Water Supply for Fish Tanks with Commercial Water Sterilizers,
W77-08842 1018 5F

PHOTOCHEMICAL REACTIONS
Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

PHOTOCHEMICAL TRANSFORMATION PROCESSES
Chemical and Photochemical Transformation of Selected Pesticides in Aquatic Systems,
W77-02822 1006 5C

PHOTOCHEMICAL TREATMENT
Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

PHOTOGRAMMETRY
Water Resource Evaluation Using Photogrammetric and Remote Sensing Techniques,
W77-00937 1002 4A

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

Arizona Land Use Experiment,
W77-04245 1009 7B

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

Improving Estimates of Streamflow Characteristics Using LANDSAT-1 (ERTS-1) Imagery,
W77-06972 1014 4A

Mapping.
W77-11363 1022 7C

PHOTOGRAPHIC WASTES
Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

PHOTOGRAPHY
A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

Photographic Reconnaissance of Continental Slope and Upper Continental Rise,
W77-09247 1019 5B

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

PHOTOGRAPHY CHEMICAL WASTES
Effectiveness of Wastewater Treatment at the Shostka 50th Anniversary of the USSR Chemical Plant, (In Russian),
W77-00351 1001 5D

PHOTOGRAPHY PROCESSING WASTES RECOVERY
Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

PHOTOHETEROTROPHIC METABOLISM
In Vivo Excretions of the Blue-Green Algae Anacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

PHOTOHETEROTROPHY
Investigations on the Role of Dissolved Organic Matter in Determining Ecosystem Structure and Function: The Plankton and Photoheterotrophy,
W77-03389 1007 5C

PHOTOINACTIVATION
Disinfection of Waste Water by Photodynamic Oxidation,
W77-09852 1020 5D

PHOTOINTERPRETATION
Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

PHOTOLYSIS
Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

PHOTOMETRY
Photometric Determination of Isoprene and Neozone D in Water, (In Russian),
W77-01594 1004 5A

Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

Extraction-Photometric Determination of Mercury in Soil and Water, (In Russian),
W77-02272 1005 5A

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

PHOTOOXIDATION

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

PHOTOPERIODISM

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

The Influence of Daylength, Light Intensity and Temperature on the Growth Rates of Planktonic Blue-Green Algae,
W77-06377 1013 5C

PHOTOPHOSPHORYLATION

Effect of the Groundwater Level and Soil Moisture Content on Photophosphorylation of Barley, Wheat and Oat Chloroplasts, (In Belorussian),
W77-04884 1010 2I

PHOTOPROCESSING WASTES

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

PHOTOSYNTHESIS

Leaf Photosynthesis: The Influence of Environmental Variables,
W77-00302 1001 2I

Yellow Substance (Gelbstoff) and its Contribution to the Attenuation of Photosynthetically Active Radiation in some Inland and Coastal South-Eastern Australian Waters,
W77-00448 1001 5C

Effects of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariphyceae). II. Effect of Oxygen,
W77-00721 1002 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Effects of Suspended Solids on Selected Estuarine Plankton,
W77-01784 1004 5C

CO2 Compensation Point for Photosynthesis: Effect of Variable CO2 and Soil Moisture Levels,
W77-01899 1004 2I

Production of Phytoplankton of Lake Baikal in the Region of Listvennichnoye Village, (In Russian),
W77-02253 1005 5C

Elements of Limnological Specificity of Large Lakes in the Temperate Zone, (In Russian),
W77-02260 1005 2H

Plankton Photosynthesis and Degradation in the Kapchagai Reservoir in the Third Year of its Existence, (In Russian),
W77-02737 1006 5C

Observations of the Daily Dynamics of Primary Production of Phytoplankton, (In Russian),
W77-02872 1006 5C

Study of Periphyton Productivity in the Novosibirsk Reservoir, (In Russian),
W77-02915 1006 5C

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

The Primary Production of Lake Sibaya, Kwazulu, South Africa,
W77-03376 1007 5C

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

Utilization of Energy by Primary Producers in Four Ponds in Northwestern Florida,
W77-04165 1009 5C

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

Some Effects on Integral Photosynthesis of Artificial Circulation of Phytoplankton Through Light Gradients,
W77-06696 1014 5C

Influence of Light and Temperature on the Photosynthetic Rate of Marine Benthic Diatoms,
W77-07385 1015 5C

Effect of DDT on Photosynthesis of Selenstrum Capricornutum,
W77-07444 1015 5C

Photosynthetic Rates in Lake Superior,
W77-07450 1015 5C

Effect of Zooplankton Grazing on Photosynthetic Activity and Composition of Phytoplankton,
W77-07453 1015 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

Vertical Mixing Mechanisms and Their Effects on Primary Production of Phytoplankton,
W77-07733 1016 5C

Effect of Metals on Photosynthesis of Marine Phytoplankton, (In Russian),
W77-08160 1017 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Growth of Tropical and Temperate Grasses at Palmerston North I. Warm-Season Yields With and Without Irrigation,
W77-08457 1017 3F

Effects of High Organic Loading on Mixed Photosynthetic Waste Water Treatment,
W77-08540 1017 5D

Growth and Photosynthesis During the Formation of a Benthic Algal Community,
W77-09627 1020 5C

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

Determining Photosynthetic Productivity in Streams,
W77-10080 1020 5C

The Influence of Zooplankton Anesthetising Substance Physostigmine Salicylicum on Photosynthesis,
W77-10149 1021 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Photosynthetic Properties of Marine Benthic Green Algae from Different Depths in the Coastal Area, (In Japanese),
W77-10466 1021 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-10728 1021 5C

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

PHOTOSYNTHESIS

Influence of Sediment Inflow in Phytoplankton Primary Productivity in Lake Tahoe (California-Nevada),
W77-10743 1021 5C

Physiological Studies of Subtidal Red Algae,
W77-10757 1021 5C

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Microbiological Effects of Metal Ions in Chesapeake Bay Water and Sediment,
W77-11255 1022 5C

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

Water Status and Distribution of Cyanidium Calderium in Soil,
W77-11788 1023 2G

A System and Program for Monitoring CO2 Concentration, Gradient, and Flux in an Agricultural Region,
W77-12120 1023 7B

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

Effect of Water Stress on 14CO2 Fixation and Translocation in Wheat During Grain Filling,
W77-12289 1024 3F

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

Regulation of Grain Yield by Photosynthesis in Maize Subjected to a Water Deficiency,
W77-12841 1024 3F

Relationships Between Photosynthetic Production and Light Penetration in Waters of Lake Berre, (In French),
W77-12990 1024 2H

PHOTOSYNTHETIC BACTERIA

Photosynthetic Bacteria in Rietvlei Dam,
W77-10204 1021 5A

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

PHOTOSYNTHETIC EFFICIENCY

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

PHOTOSYNTHETIC RATES

Photosynthetic Rates in Lake Superior,
W77-07450 1015 5C

PHRAGMITES-COMMUNIS

A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

Macrophytes and Phosphorus in Lake Andsjon, Central Sweden, (In Swedish),
W77-07582 1015 5C

PHREATOPHYTES

Conserving Water by Antitranspirant Treatment of Phreatophytes,
W77-02863 1006 3B

Aerial Spraying of Phreatophytes with Antitranspirant,
W77-02867 1006 3B

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

Effects of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona, With a Section Statistical Analysis,
W77-10868 1022 5A

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

Plant Indicators of Hydrochemical Conditions of Limans of the Kalmyk Steppe, (In Russian),
W77-12991 1024 2H

PHTHALATES

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Identification and Determination of Phthalate Esters in River Water by High-Performance Liquid Chromatography,
W77-04805 1010 5A

PHYLACTOLEMA

Role of Populations of Plumatella Fungosa (Pallas) (Bryozoa, Phylactolema) in the Self-Purification of a Pond and a Stream, (In French),
W77-04083 1008 5G

PHYLLOSPADIX TORREYI

Response of the Marine Angiosperm Phyllospadix Torreyi to Certain Environmental Variables: A Preliminary Study,
W77-07379 1015 5C

PHYLOGENY

Phylogeny of the Family Calanidae(Copepoda) on the Basis of a Comparative Morphological Analysis of its Characters,
W77-00394 1001 5C

Structure of the Mandibles in the Genus Calanus S.L. in Relation to Latitudinal Zonality,
W77-00396 1001 5C

Geographical Variability of Some Species of the Family Oithonidae (Copepoda, Cyclopoida),
W77-00400 1001 5C

Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

PHYSICAL CHEMICAL TREATMENT

The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

Biochemical and Physical-Chemical Treatment of Weak Municipal Waste Water,
W77-07916 1016 5D

Physical-Chemical Treatment of a Municipal Wastewater Using Powdered Carbon: No. II,
W77-11830 1023 5D

PHYSICAL CONTROL

Coleshill Advanced Wastewater Treatment Project,
W77-02344 1005 5D

PHYSICAL OCEANOGRAPHY

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

An Historical Sketch of Physical Oceanography in Canada,
W77-03759 1008 2L

Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

Annual Physical and Chemical Oceanographic Cycles of Auke Bay, Southeastern Alaska,
W77-11658 1023 2L

PHYSICAL PROPERTIES

Sodium Aluminate Improves Sludge Properties,
W77-00588 1002 5D

Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

Snow Pressure on Rigid Obstacles,
W77-02463 1005 2C

Data on Selected Lakes in Washington, Part 5,
W77-03350 1007 7C

Superhard Materials Promise Extended Wear Capability,
W77-04283 1009 8G

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

Study of Physical, Settling, and Thickening Characteristics of a Sludge,
W77-06197 1013 5D

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

A Survey of the Physical and Chemical Limnology of Lake Titicaca,
W77-07460 1015 5C

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

Collection Systems.
W77-11500 1022 5D

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

PHYSICO-CHEMICAL TREATMENT

Japanese Physico-Chemical System.
W77-12424 1024 5D

PHYSICOCHEMICAL PROPERTIES

Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. II. Physicochemical Properties of Lignin Decomposition Product (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. II. Fiziko-khimicheskaya kharakteristika produkov razrusheniya lignina),
W77-02586 1006 5B

Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

Processing of Combined Domestic Bath and Laundry Waste Waters for Reuse as Commode Flushing Water,
W77-06196 1013 5D

PHYSIOCHEMICAL PROPERTIES

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

Criteria Document for PCB's,
W77-12882 1024 5A

PHYSIOLOGICAL ECOLOGY

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Pathology of Acute and Chronic Exposure of Salmonid Fishes to Supersaturated Water,
W77-04409 1009 5C

Biological Studies: Laboratory Orientation,
W77-04432 1009 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

PHYSIOLOGICAL EFFECTS

Final Report, Studies on Effects of Supersaturation of Dissolved Gases on Fish,
W77-06037 1012 5C

PHYSIOLOGICAL RESPONSE

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

PHYSIOLOGICAL RESPONSES

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

PHYSIOLOGICAL TEMPERATURE OPTIMA

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

PHYSIOLOGY

Effects of Crude Oil on Marine Invertebrates,
W77-02627 1006 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

PHYSIOLOGY (ANIMAL)

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

PHYSOSTIGMINE SALICYLICUM

The Influence of Zooplankton Anesthetising Substance Physostigmine Salicylicum on Photosynthesis,
W77-10149 1021 5C

PHYTASE

Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

PHYTOBENTHOS

Phytobenthos of the Tedzhen Fish-Breeding Farm, (In Russian),
W77-02034 1004 2I

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

PHYTOFLAGELLATE BLOOMS

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

PHYTOMETERS

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

PHYTOPHTHORA PALMIVORA

Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

PHYTOPHYLIC INVERTEBRATES

Distribution of the Phytophylic Invertebrates and Methods of their Quantitative Estimation, (In Russian),
W77-01040 1002 5C

PHYTOPLANKTON

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Seasonal Succession and Vertical Distribution of Phytoplankton in Lake Hayes and Lake Johnson, South Island, New Zealand,
W77-00517 1001 5C

Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-00874 1002 5C

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

Physical-Chemical and Planktonological Quantitative Studies of the Great Lake of Laffrey (Years 1970, 1971 and 1973), (In French),
W77-01019 1002 5C

Plankton Communities of Three Mazurian Lakes and Chlorophyll Content in Their Phytoplankton, (In Polish),
W77-01029 1002 5C

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

Phytoplankton Distribution in the Scotia Sea as Related to Vertical Water Circulation, (In Russian),
W77-01592 1004 5B

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Effects of Suspended Solids on Selected Estuarine Plankton,
W77-01784 1004 5C

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

Hydrochemical Characteristics of the Orel River, (In Russian),
W77-02234 1005 5A

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Production of Phytoplankton of Lake Baikal in the Region of Listvennichnoye Village, (In Russian),
W77-02253 1005 5C

Effects of Waterhyacinth Cover on Water Chemistry, Phytoplankton, and Fish in Ponds,
W77-02291 1005 5G

Mathematical Modeling of Phytoplankton in Lake Ontario. Part 2. Simulations Using Lake 1 Model,
W77-02443 1005 5C

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Evaluation of the Phytoplankton Biomass in Lakes of the World, (In Russian),
W77-02816 1006 2H

Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

Phytoplankton of the Laguna Salada and Adjacent Area, Veracrux (September, 1973), (In Spanish),
W77-02859 1006 5C

Observations of the Daily Dynamics of Primary Production of Phytoplankton, (In Russian),
W77-02872 1006 5C

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Plankton of Coastal Lagoons: XI. Transport in Three Estuaries of the Northwest of Mexico (November, 1973) (In Spanish),
W77-03145 1007 2L

Phytoplankton Ecology in Valparaiso Bay: III. Phytoplankton from 1972-73, (In Spanish),
W77-03200 1007 5C

Investigations on the Role of Dissolved Organic Matter in Determining Ecosystem Structure and Function: The Plankton and Photoheterotrophy,
W77-03389 1007 5C

Phytoplankton Response to Phosphorus and Silica Enrichments in Lake Michigan,
W77-03537 1007 5C

Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Marine Phytoplankton Growth in High Concentrations of Pulp Mill Effluent,
W77-03798 1008 5C

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Phytoplankton Models and Eutrophication Problems,
W77-04499 1009 5C

Prediction of the Phytoplankton Development in Designed Reservoirs by Combining a Growth-Model and the Analogy to Existing Reservoirs, (In German),
W77-04584 1009 5C

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Investigations on the Phytoplankton of the Northern Central Atlantic: I. The Phytoplankton of the Offshore Region at 30 W Related to a Few Environmental Factors Determining the Production, (In German),
W77-05097 1010 5C

Relationships of Phytoplankton Biomass with Soluble Nutrients, Primary Production, and Chlorophyll a In Lake Erie, 1970,
W77-05235 1011 5C

Characteristics of the Pelagic Environment of the Brackish-Water Lagoons of Bages-Sigean and Salses-Leucate During the Summer of 1974, (In French),
W77-05304 1011 5C

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

Effects of Entrainment Through Oconee Nuclear Station on Carbon-14 Assimilation Rates of Phytoplankton,
W77-05590 1011 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

The Distribution and Long Term Changes in Abundance of Larval Ammodytes Marinus (Raitt) in the North Sea,
W77-05835 1012 2L

Algae in Copper Treated Fish Ponds,
W77-05860 1012 5C

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

Primary Production of the Phytoplankton of the Uchinskoye Reservoir, (In Russian),
W77-06332 1013 5C

Estimating Daily Rates of Extracellular Dissolved Organic Carbon Release by Phytoplankton Populations,
W77-06386 1013 5C

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

Limnological and Planktonic Studies in the Waterton Lakes, Alberta,
W77-06680 1014 5C

Dynamics of Phytoplankton Biomass in Two Lakes of Different Limnological Character,
W77-06685 1014 5C

The Share of Algae with Different Dimensions in the Plankton of Two Lakes of Different Trophic Character in the Annual Cycle,
W77-06692 1014 5C

A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

Changes in the Structure of Phytoplankton During the First Years of Existence of the Derdap Storage Reservoir, (In Serbo-Croatian),
W77-06786 1014 2H

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Succession Rates in Lake Phytoplankton Communities,
W77-07442 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Effect of Zooplankton Grazing on Photosynthetic Activity and Composition of Phytoplankton,
W77-07453 1015 5C

Comparison of Primary Productivity (14C) per Unit Biomass Between Phytoplankton and Periphyton in the Ottawa River Near Ottawa, Canada,
W77-07454 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

The Structure of Phytoplankton Associations in Lake Tahoe (California-Nevada),
W77-07473 1015 5C

A Comparison of Spectrophotometric Methods for the Determination of Phytoplankton Pigments, (In French),
W77-07581 1015 5A

First Information About N, P Nutrients and the Production of Lake Trasimeno, (In Italian),
W77-07593 1015 5C

The Gas Bubble Disease of Fish, (Die Gasblasen Krankheit Bei Fischen,
W77-07716 1016 5C

Vertical Mixing Mechanisms and Their Effects on Primary Production of Phytoplankton,
W77-07733 1016 5C

Biological Assessment of the Water Quality of the Small Rivers Sora and Byurya (Yenisei Basin), (In Russian),
W77-07755 1016 5C

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Effect of Metals on Photosynthesis of Marine Phytoplankton, (In Russian),
W77-08160 1017 5C

Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Physical and Chemical Parameters Associated with Phytoplankton Abundance and Periodicity in a Fertilized Fish Pond,
W77-08922 1018 5C

Hydrooptical and Hydrobiological Investigations of the Central Parts of the Reservoir of the Krasnoyarsk Hydroelectric Station, (In Russian),
W77-09136 1019 5C

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Environmental Status of the Lake Michigan Region: Vol. 4. Phytoplankton of Lake Michigan,
W77-10056 1020 5C

PHYTOPLANKTON

The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Activity of Phytoplankton Excreted by Fish,
W77-10642 1021 5C

Studies of Primary Productivity and Phytoplankton Organisms in the Colville River System,
W77-10900 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Phytoplankton of the Upwelling Area of Northwest Africa: I. Pigments and Production (Cruise 'Sahara II' of the Research Vessel 'Cornide De Saavedra'), (In Spanish),
W77-11045 1022 5C

Phytoplankton and Nutrients Near the Zion Nuclear Plant During Upwelling,
W77-11150 1022 5C

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Zooplankton and Phytoplankton Studies in the Waterton Lakes, Alberta, Canada,
W77-11415 1022 5C

Vitamin B12 Contents in Sea Water Along the Coast of Fukuyama in 1970 and 1971,
W77-11535 1023 5C

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

Mercury in the Seston of the San Francisco Bay Estuary,
W77-12238 1023 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

PHYTOSOCIOLOGIC STUDY

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

PHYTOSOCIOLOGICAL INVESTIGATION

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

PHYTOTOXIC GASES

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

PHYTOTOXICITY

Case History of Landfill Gas Movement Through Soils,
W77-02413 1005 5E

Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Use of Recording Method of Afterglow of Green Algae in Determining Soil and Water Pollution by Phytoxic Substances, (In Russian),
W77-04097 1008 5C

Effects of Sewage Sludge Composition, Application Rate, and Lime Regime on Plant Availability of Heavy Metals,
W77-06175 1013 5C

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

PHYTOTOXINS

The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

PHYTOXICITY

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

PHYTPLANKTON

Iron Transport in a Lake Tahoe Tributary and its Potential Influence upon Phytoplankton Growth,
W77-04022 1008 5B

PICEANCE BASIN (COLO)

Ground Water Problems with Oil Shale Mining in the Piceance Basin,
W77-06045 1012 4B

PICHIA SPARTINAE

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

PICKEREL LAKE (WIS)

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

PICKLE INDUSTRY

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

PICLORAM

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

PICLORAM DEGRADATION (SOILS)

Picloram Degradation in Soils as Influenced by Soil Water Content and Temperature,
W77-09644 1020 5B

PICNIC BAY (HONG KONG)

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

PIEDMONT REGION (NC)

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

PIER SCOUR

Scour Around Bridge Piers,
W77-03294 1007 8B

PIERS

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion

and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 3, Alternate Plans for Pier J Completion and Tanker Terminal Project (62- and 82-Ft Depths),
W77-02951 1006 8B

Scour Around Bridge Piers,
W77-03294 1007 8B

Providence and Worcester Company V. Exxon Corporation (Right-of-Way in Land Submerged in Tidewater).
W77-03496 1007 6E

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 4, Alternate Plans for Pier J Completion and Tanker Terminal Project (No Landfill),
W77-10041 1020 8B

PIETERMARITZBURG (SOUTH AFRICA)
Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

PIG EXCRETA
An Investigation on the Disposal of Pig Excreta in Kasumigaura Area, (In Japanese),
W77-07571 1015 5B

PIGMENTS
Surface Nutrients, Chlorophyll-A and Phaeopigment in Some Scottish Sea Lochs,
W77-00182 1001 5C

Yellow Substance (Gelbstoff) and its Contribution to the Attenuation of Photosynthetically Active Radiation in some Inland and Coastal South-Eastern Australian Waters,
W77-00448 1001 5C

Pigment Cycle in a North German Lake,
W77-07459 1015 5C

The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

Limb Regeneration in Fiddler Crabs: Species Differences and Effects of Methylmercury,
W77-10229 1021 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Phytoplankton of the Upwelling Area of Northwest Africa: I. Pigments and Production (Cruise 'Sahara II' of the Research Vessel 'Cornide De Saavedra'), (In Spanish),
W77-11045 1022 5C

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

PIKES
Mixed Function Monooxygenase of Fish as an Indicator of Pollution of Aquatic Environment by Industrial Effluent,
W77-01065 1002 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

Effects of Simulated Pumped Storage Operation on Northern Pike Fry, (In German),
W77-04590 1009 5C

The Effect of Acclimation on the Temperature Tolerance of Young Muskellunge Fry,
W77-05560 1011 5C

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

PILE GROUPS
Added Mass of Pile Group,
W77-09018 1018 8B

PILE SPACING
Added Mass of Pile Group,
W77-09018 1018 8B

PILES (FOUNDATION)
Thurrock Beats Peat with Piled Pipes,
W77-02328 1005 8E

PILES (FOUNDATIONS)
Method of Protecting a Pile Imbedded in Offshore Areas Having a Shifting Layer of MUD,
W77-01711 1004 8D

The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

Added Mass of Pile Group,
W77-09018 1018 8B

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VIII. Pile Foundations and Sheet Pile Cells,
W77-10334 1021 8A

PILGRIM NUCLEAR POWER STATION (MASS)
Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

PILICA RIVER (POLAND)
The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

PILOT PLANT
Optimal Control of an Unsteady State Continuous Activated Sludge System: A Comparison of Digital Computer Simulation Vs Pilot Plant Results,
W77-09597 1019 5D

PILOT PLANTS
For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Single-Stage Nitrification-Denitrification,
W77-00590 1002 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

One Pass Seawater Desalting RO Pilot Plant Evaluation,
W77-03076 1007 3A

Sludge Dewatering Pilot Plant Design, Part I,
W77-03416 1007 5D

High Gradient Magnetic Filtration,
W77-03418 1007 5D

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

Biological Purification of Waste Water, Using Oxygen,
W77-06206 1013 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Sludge Dewatering Pilot Plant Design. Part 2,
W77-07088 1014 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Experimental Use of Emergent Vegetation for the Biological Treatment of Municipal Wastewater in Wisconsin,
W77-11691 1023 5G

The Potential of Submersed Vascular Plants for Reclamation of Wastewater in Temperate Zone Ponds,
W77-11693 1023 5G

Pilot-Plant Experiments on Sewage Purification in an Activated Sludge System with a Selector (Poloprovozni Pokusy S Cistenim Mestske Od-

PILOT PLANTS

padni Vody V Aktivacnim Systemu Se Selektorem),
W77-12423 1024 5D

PIMEPHALES PROMELAS

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

PINE BLUFF ARSENAL

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

PINE RUN WATERSHED (PA)

Special Watershed Projects.
W77-05292 1011 4D

PINE TREES

Crown Structure and Distribution of Biomass in a Lodgepole Pine Stand,
W77-00729 1002 2I

CO2 Compensation Point for Photosynthesis: Effect of Variable CO2 and Soil Moisture Levels,
W77-01899 1004 2I

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

PINEY POINT AQUIFER (DEL)

Hydraulic Characteristics of the Piney Point Aquifer and Overlying Confining Bed Near Dover, Delaware,
W77-03331 1007 2F

PINFISH

The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

PINK SALMON

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

PINK SALMON FRY

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

PINK SHRIMP

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

PINNIPEDS

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

PINTAIL DUCK

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

PINYON PINE TREES

Grazing and Debris Burning on Pinyon-Juniper sites--Some Chemical Water Quality Implications,
W77-04392 1009 5B

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

PIPE FLOW

Flow in Corrugated Pipes,
W77-03744 1008 8B

Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

Segmental Orifices with Shunt Meters to Totalize Pipeline Flow,
W77-04269 1009 8B

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

Effect of Branch Spacing on Losses for Dividing Flow,
W77-06518 1013 8B

How to Determine Waste Water Flow,
W77-07881 1016 5F

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

Final Report of the Task Committee on Branching Conduits,
W77-11590 1023 8B

Some Basic Concepts on Flow in Branching Conduits,
W77-11591 1023 8B

Pressurized Pipeline Transport of Effluent Sediments (K voprosu perekachki osadkov stochnykh vod po napornym truboprovodam),
W77-12356 1024 5D

Time Scale and Molecular Weight Distribution Contributions to Dilute Polymer Solution Fluid Mechanics,
W77-12564 1024 8B

PIPELINE ICING EFFECTS

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

PIPELINES

Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

Oil Spill Prevention Practices in Pipelines and Terminals,
W77-00210 1001 5G

Channel Erosion Surveys Along Taps Route, Alaska, 1975,
W77-00433 1001 2J

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Ductile Iron Pipe Solves a Tough Sewer Problem at Jimerson Creek,
W77-03398 1007 8G

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

Force Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Case of a Polluted Water Pipeline, (In Russian),
W77-05687 1012 5B

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

Pressurized Air Simplifies Conveying Sewage Solids,
W77-06115 1013 5D

Problems Associated with Construction of Submarine Pipelines,
W77-07349 1015 8D

The Protection and Repair of Underground Pipelines for Water and Sewage,
W77-08551 1017 8G

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

Making Sure of Pipeline Performance,
W77-10068 1020 8A

Proposed Pipeline System Will Link Water Schemes DWA's R24 Million Balancing Act.
W77-10069 1020 8B

Flow of Slurries in Pipelines,
W77-10970 1022 8B

Ball Cleaning of Sewer Pipes,
W77-11566 1023 8G

PIPERIDINE
The Barrier Role of Water Treatment Installations with Respect to Certain Heterocyclic Compounds, (In Russian),
W77-02240 1005 5F

PIPERONYL BUTOXIDE
Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

PIPES
Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Hose or Pipe for Sprinkling or Irrigation,
W77-03864 1008 3F

Installation Tips on Large Submersibles,
W77-07289 1015 8C

Reducing Power Consumption in Irrigation Systems with the Aid of a Mathematical Model for Pipe Dimensioning,
W77-07547 1015 3F

Study of In-Service Bituminized Fiber Sewer Pipe,
W77-07884 1016 8G

Pipes for Sewerage and Surface Water.
W77-07887 1016 8G

Perforated, Vitrified Clay Pipe Used in Peoria Facilities,
W77-08598 1017 8G

Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

Underground Irrigation Porous Pipe,
W77-09810 1020 3F

Static Calculation of Drainage Channels and Pipes (Die statische Berechnung von Entwasserungskanalen und-leitungen),
W77-09833 1020 8G

New Sewer System Resists Infiltration.
W77-09843 1020 5D

Sewers Under Attack: The Hydrogen Sulphide Problem,
W77-10548 1021 5D

Grout Routs Sewer Problems,
W77-10590 1021 5D

PVC Sewer Pipe Survives Deep Burial.
W77-10592 1021 8G

Sewer Renovation Techniques.
W77-12449 1024 8C

Surge Arrestor Controls Florida Sewage.
W77-12462 1024 8C

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

Optimization of Subunit Dimensions for Pressurized Irrigation Systems,
W77-12710 1024 3F

Energy Economics in Pipe and System Selection,
W77-12715 1024 3F

PIPING
Structural Polymer, ADIPRENE Replaces Iron Pipe Fittings on New Lightweight Aeration Assembly.
W77-07935 1016 8G

Plain-End Pipe 'Collars' Problem Sewer Connections,
W77-08553 1017 8G

Predicting Performance of Pipe Culverts Buried in Soil,
W77-08622 1018 8B

Corrosion Avoidance in Water and Sewage Pipelines,
W77-09832 1020 8F

PIPING (EARTH DAMS)
Teton Dam Failure.
W77-12324 1024 8D

PIPING (EROSION)
Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

PIPING SYSTEMS (MECHANICAL)
The Trans-Alaska Pipeline and Strict Liability for Oil Pollution Damage,
W77-04907 1010 5G

PIPING SYTEMS (MECHANICAL)
Milton Keynes Sewerage System Opened,
W77-05318 1011 5D

PISCICIDES
Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

PISMO CLAMS
Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

PISUM SATIVUM
Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

PIT NUCLEATION
Influence of the Supramolecular Marine Environment on Pitting Corrosion,
W77-00890 1002 8G

PIT RECHARGE
Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Dupuit-Forchheimer and Potential Theories for Recharge from Basins,
W77-06004 1012 2F

Analysis of the Movement of Water from Recharge Channels and Pits,
W77-10379 1021 4B

PITLESS ADAPTERS
Bits and Pieces,
W77-06866 1014 8G

Pumping Systems: Part II,
W77-07704 1016 8C

PITOT TUBES
The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

PITTING (CORROSION)
Influence of the Supramolecular Marine Environment on Pitting Corrosion,
W77-00890 1002 8G

How to Deal with Pitting and Corrosion.
W77-06869 1014 8G

PL 92-500
What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

PLACE GLACIER (CANADA)
Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 2. Place Glacier, British Columbia - Summary of Measurements,
W77-12788 1024 2C

PLACER MINING
Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

PLAICE
The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Gynogenesis in Hybrids within the Pleuronectidae,
W77-04543 1009 5C

Development of the Respiratory System in Herring and Plaice Larvae,
W77-04548 1009 2I

Resistance of Plaice Eggs to Mechanical Stress and Light,
W77-04553 1009 5C

The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

The Accumulation of Mercury from Food by the Plaice, Pleuronectes Platessa L.,
W77-11508 1023 5C

PLAICE.C
Larval Mortality and Subsequent Year-Class Strength in the Plaice (Pleuronectes Platessa L.),
W77-05823 1012 2L

PLANAR AERATED JETS
The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

PLANETARY THEORY
The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

PLANKTON
Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 7. Fish, Plankton, Benthos, Littoral.
W77-00907 1002 6G

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Effect of Current Velocity and Changes in Water Level on the Composition of the Planktonic Ciliate Population of the Danube River, (In Hungarian),
W77-02236 1005 5C

Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Plankton Photosynthesis and Degradation in the Kapchagai Reservoir in the Third Year of its Existence, (In Russian),
W77-02737 1006 5C

Pelagic Tar in the Norwegian Coastal Current,
W77-03190 1007 5B

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04942 1010 5C

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

Efficiency Test on Four High-Speed Plankton Samplers,
W77-05836 1012 7B

Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Preliminary Experiment of Cobalt 60 Pollution of a Marine Food Chain: Results of a Single Ingestion,
W77-07317 1015 5C

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

The Utilization of the Green Alga Dictyosphaerium Pulchellum as Food for Certain Crustaceans of Fresh Water Plankton,
W77-07468 1015 5C

An Analysis of Plankton from Deepwater Dumpsite 106,
W77-09254 1019 5C

Planktonic Ciliates in the Ivan'kovo Water Reservoir, (In Russian),
W77-10010 1020 5C

Partial Analysis of the Microplankton in the Lagoon of Pueblo Viejo, State of Vera Cruz, Mexico, (In Spanish),
W77-10066 1020 2L

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

The Influence of the Quality of Water on Ecological Systems,
W77-10818 1022 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

Some Aspects of the Daily Development of the Plankton in the Environment of the Port of Marseille, (In French),
W77-11486 1022 2L

Activity of Hydrolytic Enzymes in Water and Biomass of Planktonic Organisms in a Reservoir of an Eutrophic Type in the Lagoon of Kursiu Marios, (In Russian),
W77-11509 1023 5C

Power Plants and Plankton,
W77-12039 1023 5C

Planktonic Infusoria from the Volga River, (In Russian),
W77-12397 1024 2H

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

PLANKTONIC

Planktonic Infusoria in Two Lakes of the Gorki Oblast, (In Russian),
W77-07234 1015 5C

PLANNING

The Use of Continuous Simulation in the Evaluation of Water Quality Management Plans,
W77-00001 1001 5G

Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

Inter-Plan Communication and Motivation Study, Final Report, Florida Background Study,
W77-00098 1001 6B

OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

A Method for Selecting and Evaluating Simulation Games as Educational Tools for Water Resources Planning,
W77-00148 1001 6A

The Integration of Environmental and Development Planning for Ecological Crisis Areas in Africa,
W77-00385 1001 6G

Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

A Search Technique for Formulating Improved Water Resources Configurations, Part II,
W77-00534 1002 6A

Screening Models in Water Resources Planning, Part III,
W77-00535 1002 6A

Water Resources in the Western States: Program Policy Initiatives.
W77-00547 1002 6D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition.
W77-00631 1002 5E

The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

A Coarse Sort System for Preliminary Water Resources Management Alternatives,
W77-01055 1003 6A

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

The Attitude and Interest of the Environmental Protection Agency in Multiple Objective Planning of Water and Related Land Resources,
W77-01153 1003 5G

Emerging Corps of Engineers Guidelines for Implementing the Planning Requirements of WRC's Principles and Standards and Related Policies,
W77-01154 1003 6B

Implementation of Multiple Objective Planning by the Soil Conservation Service,
W77-01155 1003 6B

Philosophy of Multiple Objective Planning in the Bureau of Reclamation,
W77-01156 1003 6B

The Tennessee Valley Authority and Multiple Objective Planning,
W77-01157 1003 6B

The Department of Transportation - Use of Multi-Objective Planning,
W77-01158 1003 6B

Implementation of Multi-Objective Planning in the Department of Commerce,
W77-01159 1003 6B

Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

The Use of Multiple Objective Planning in the Bureau of Land Management,
W77-01161 1003 6B

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

Resource Inventory Management Planning System (RIMPS). User Manual,
W77-01294 1003 5G

Multiobjective Planning: Concepts and Methods,
W77-01346 1003 6B

Nonquantitative Methods in Water Resources Management,
W77-01348 1003 6B

Change in Big Dam Plan.
W77-01476 1003 8D

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

Inland Water Pollution.
W77-01697 1004 5G

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

Impact Studies and the Evaluation of Public Projects,
W77-02062 1004 6B

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

Problem Identification and Ranking, A Selected Review of Techniques Used by Public Agencies,
W77-02080 1005 6B

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

Proceedings of Seminar Sessions on State Water Supply Planning, Sept. - Oct. 1975, (Executive Summary).
W77-02618 1006 6B

Proceedings of Seminar Sessions on State Water Supply Planning (Sept.-Oct. 1975).
W77-02619 1006 6B

Computer-Aided Planning of Regional Sludge Disposal Systems, User's Manual,
W77-02745 1006 5D

Hydrology,
W77-02968 1006 6B

Local Water Systems are Frequently Neglected,
W77-03121 1007 6B

Use of Hybrid Computer Model in Resource Planning,
W77-03523 1007 6A

Iowa's Water Resources Program Progress and Needs.
W77-03547 1007 6B

Iowa Water Resources Framework Study Plan of Study.
W77-03561 1007 6B

Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Social Well-Being and Water Resources Planning,
W77-04013 1008 6B

Limnological Ecosystems and Hawaii's Preservational Planning,
W77-04149 1009 6A

Land Use Planning: Important Tool for Controlling Water Demands,
W77-04173 1009 6D

Workshop Report Integrating Water Quality and Water and Land Resources Planning.
W77-04202 1009 6B

Attitudes and Interactions of Citizen Advisory Groups and Governmental Officials in the Water Resources Planning Process,
W77-04294 1009 6B

Where California Stands on Planning for Its Coast,
W77-04463 1009 2L

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-04466 1009 2L

Evaluation of Water Quality Models: A Management Guide for Planners,
W77-04507 1009 5G

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

Residual Waste: Model State Legislation,
W77-04905 1010 5G

Systems Approach to Water Management.
W77-05008 1010 6A

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

State Coastal Management Programs,
W77-05035 1010 6E

Growth with Environmental Awareness,
W77-05044 1010 6E

Developments in Water Quality and Land Use Planning: Problems in the Application of the Federal Water Pollution Control Act Amendments of 1972,
W77-05052 1010 5G

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

A Structural-Functional Analysis of the Socio-Political System Relative to Water and Related Land Resources in the Coastal Zone of South Carolina,
W77-05722 1012 6B

Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

New York City Area Examines Alternative to Ocean Dumping.
W77-06143 1013 5E

Australia Makes Impressive Progress in Pollution Abatement.
W77-06149 1013 5G

Historical and Geographical Evolution of Water Law and Its Role in the Management and Development of Water Resources,
W77-06536 1013 6E

Shoreline Management and Boating - Can the Industry Survive. (Report on the Fourth Marine Recreation Conference).
W77-06544 1013 6E

Flood Plain Information: Stone, Dark and Kettle Brooks, Town of Auburn, Massachusetts,
W77-06585 1013 4A

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

La Science des Systemes dans la Planification des Ressources en Eau,
W77-06736 1014 6A

Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

Improvement of Planning for Post-Development Water Resource Management: A Study of the Weber Basin Project,
W77-06739 1014 6B

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Fail-Safe Waste Treatment System,
W77-07027 1014 5D

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

Water Resources Planning and Management Goals,
W77-07523 1015 6B

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

Towards System Models for Water Resource Management,
W77-07544 1015 6A

A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Penn State Urban Runoff Model--User's Manual,
W77-07797 1016 4D

A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

Community Water Supply and Excreta Disposal in the Developing Countries,
W77-07865 1016 5G

Appraisal of Areawide Waste Water Planning,
W77-07874 1016 5G

Bristol Regional Sewage Treatment Works--Past, Present and Future,
W77-07901 1016 5D

1776-1976: Notes on Water Quality Planning,
W77-07938 1016 5G

Environmental Policy Choice Under Uncertainty,
W77-08004 1016 6G

Planning of Systems for Regional Development in Water Resources,
W77-08049 1016 6A

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

RECSAD: A Computer Program for Recreation Planning,
W77-08300 1017 6B

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

Planning Challenges in the Management of Coastal Zone Water Resources,
W77-08376 1017 6B

Seabed Sewers for Hong Kong,
W77-08555 1017 5E

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

PLANASA--A National Plan for Water Supply and Sewerage in Brazil,
W77-08646 1018 6E

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

Water--An Element of Land-Use and Urban Growth Policies,
W77-08872 1018 6B

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

Legal Battles on the California Coast: A Review of the Rules,
W77-08963 1018 6E

What 208 Planning Can Do: A Local and Federal View,
W77-08968 1018 6E

The Utility of Computers in Landscape Planning, the Selection and Application of a Computer Mapping and Assessment System for the Metropolitan Landscape Model (METLAND),
W77-09151 1019 6A

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

Joint Use of SWMM and Storm Models for Planning Urban Sewer Systems,
W77-09172 1019 5D

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Water Supply Systems Planning, Management and Communication Through an Interactive River Basin Simulation Model,
W77-09212 1019 6B

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Environmental Changes in Lake Erie and Their Future Impact on Lake Resources.
W77-09454 1019 5C

Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

Advance Sewer Planning for Rio de Janeiro Coastline,
W77-09890 1020 5D

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Proceedings: Minnesota's Water Resources in the Year 2000, A Conference on Planning and Management.
W77-10177 1021 6B

Optimal Expansion of Flood Control Systems, (Final Report: Volume I),
W77-10263 1021 6F

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

An Evaluation of Economic and Demographic Data Useful in Water Resources Planning.
W77-10295 1021 6B

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

Example of Planning for Environmental Protection (Planungsbeispiel zum Umweltschutz).
W77-10694 1021 5D

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Water Resource Modeling.
W77-10840 1022 6A

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

Prescriptive Models for Nonstructural Floodplain Planning,
W77-10847 1022 6F

Quantifying Societal Goals: Development of a Weighting Methodology,
W77-10850 1022 6A

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Regional Water Quality Control,
W77-11162 1022 6E

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

Planning for Urban Stormwater Control,
W77-11669 1023 5G

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

Planning for Implementation Under Section 208,
W77-11776 1023 5G

Flood Plain Information: Buffalo Creek, N.Y. in the Towns of Elma and West Seneca.
W77-11836 1023 4A

Flood Plain Information: Cazenovia Creek, New York, City of Buffalo and Town of West Seneca.
W77-11837 1023 4A

Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

Carrying Capacity: A Basis for Coastal Planning.
W77-11853 1023 6B

The California Coastal Plan: A Critique,
W77-11855 1023 6B

Evaluation of and Recommendations for Legal, Institutional and Financial Methods for Implementing Purposes and Plans for Flood Plain Management in Connecticut River Basin: Lif Report, Phase II,
W77-11860 1023 6F

Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

Selecting and Planning High Country Reservoirs for Recreation Within a Multipurpose Management Framework,
W77-11938 1023 6B

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

Simultaneous Investment and Allocation Decisions Applied to Water Planning,
W77-12168 1023 6A

A Community Developer's Role in Environmental Planning and Monitoring,
W77-12396 1024 5C

Scientific and Technical Evaluation of the Environmental Protection Agency's Wastewater Facilities Planning, Boston Case Study, Phase I: Water Quality Considerations,
W77-12472 1024 5G

Hutchinson Island: Evaluation as a Potential Area of Critical State Concern.
W77-12585 1024 6G

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

Impacts of Water Availability on Residential Development,
W77-12891 1024 6D

PLANNING PROGRAMS

Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

PLANT BIOCHEMISTRY

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

PLANT DECAY

Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

PLANT DISEASES

Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing

PLANT DISEASES

the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

An Epidemiological Study of Mummy Berry Disease of Highbush Blueberry,
W77-11928 1023 3F

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

PLANT ECOLOGY

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

PLANT GROUPINGS

Competition and Spacing in Plant Communities: The Northern Mohave Desert,
W77-02174 1005 2I

The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

PLANT GROWH

Growth of Tulips Treated with Sludge Containing Dewatering Chemicals,
W77-09867 1020 5E

PLANT GROWTH

Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

On the Influence of Water Currents on the Growth of Hydrorhizal Colonies, (In German),
W77-00506 1001 2I

Influence of an Inserted Asphalt Layer on the Plant Yield on a Light Soil, (In Polish),
W77-00513 1001 3F

Crown Structure and Distribution of Biomass in a Lodgepole Pine Stand,
W77-00729 1002 2I

Plant Production in Experimental Streams, A Cooperative Research Project with Weyerhaeuser Company,
W77-00735 1002 5C

Response of Wheat Under Sub-Humid Irrigated Conditions to Atmospheric Misting During Grain Filling,
W77-01284 1003 3F

The Influence of Soil Moisture After Planting on the Growth and Differentiation of the Pedunculate Oak (Quercus Pedunculata Ehrh. Var. Tardiflora Czer, (In Bulgarian),
W77-01498 1003 2I

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

An Evaluation of Methods for Measuring ALgal Growth,
W77-02018 1004 5A

Competition and Spacing in Plant Communities: The Northern Mohave Desert,
W77-02174 1005 2I

A Comparative Study of the Effect of Soil Moisture on the Growth and Transpiration of Certain Poplar Forms, (In Bulgarian),
W77-02886 1006 2I

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Cultivation and Breeding of Oenothera-Plant: IV. Effect of Soil Moisture on Growth and Components in Seed of O. Biennis, (In Japanese),
W77-03148 1007 2I

Reactions of Heavy Metals With Soils With Special Regard to Their Application in Sewage Wastes,
W77-03359 1007 5B

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Salt-Resistant Crops Coming,
W77-04312 1009 3C

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

The Influences of Simulated Moisture Stress Conditions and Osmotic Substrates on Germination and Growth of Cultivated and Wild Safflowers,
W77-08460 1017 2I

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Annual Woody Productivity During a 10-Year Period at Virelles-Blaimont, (Belgium), (In French),
W77-09143 1019 2I

Annual Woody Productivity During a 10-Year Period at Mirwart (Belgium), (In French),
W77-09227 1019 2I

Growth and Water Economy of the Tree Species Alnus and Salix, (In German),
W77-09233 1019 2I

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

Effect of Water Stress During Different Stages of Growth of Soybean,
W77-09302 1019. 2I

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

Secondary Autumn Shoot Formation in Spring Wheat: I. The Role of Drought Damage and Developmental Stages, (In Russian),
W77-09545 1019 2I

Elemental Composition of Sludge-Fertilized Chrysanthemums,
W77-09868 1020 5E

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Crop Temperature Modification and Yield Potential in a Dwarf Spring Wheat,
W77-09939 1020 3F

Simulation of Plant Growth by Humic Substances,
W77-09963 1020 2I

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

The Effect of Copper on Competition Between Marine Algae,
W77-10051 1020 5C

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

Growth of Gymnodinium Type-'65, Causative Organism of Red Tide in Omura Bay, in Medium Supplied with Bottom Mud Extract,
W77-10707 1021 5C

Physiological Basis for the Reduction of Plant Growth Under Conditions of Irrigation with Brackish Water and Possible Methods of Amelioration,
W77-11063 1022 3C

Effects of Brackish Water Irrigation on Yield and Development of Cotton,
W77-11067 1022 3C

Response of Oats to Water Deficit. II. Growth and Yield Characteristics,
W77-11101 1022 2I

Response of Dryland Cotton Plant Growth, Soil-Water Uptake, and Lint Yield to Two Extreme Types of Tillage,
W77-11118 1022 3F

Studies on Appearance Mechanism of Rice Plant Damage by Irrigation Water Polluted With Nitrogen Compounds, (In Japanese),
W77-11515 1023 5B

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Experimental Use of Emergent Vegetation for the Biological Treatment of Municipal Wastewater in Wisconsin,
W77-11691 1023 5G

Sludge Handling.
W77-11710 1023 5E

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

The Model of the Water Balance and Nutrient Uptake as a Basis for Hydrological, Agro-Hydrological and Other Projects,
W77-12091 1023 2A

Soil Physical Conditions Affecting Rice Root Growth: Bulk Density and Submerged Soil Temperature Regime Effects,
W77-12179 1023 2G

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

PLANT GROWTH REGULATORS

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

PLANT GROWTH SUBSTANCES

The Growth-Promoting Activity of Some Algal Metabolites on Scenedesmus Acutus,
W77-00190 1001 5C

Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Heteroinhibition as a Factor in Anabaena Flos-Aquae Waterbloom Production,
W77-04166 1009 5C

Leaf Growth in Relation to ATP Levels in Water Stressed Corn Plants,
W77-09301 1019 3F

PLANT MORPHOLOGY

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

PLANT PATHOGEN

Use of Plant Pathogens for Bioregulation of Aquatic Macrophytes,
W77-02514 1005 5G

PLANT PATHOGENS

Mycoleptodiscus Terrestris Leaf Spot on Waterhyacinth,
W77-02543 1005 5G

PLANT PATHOLOGY

Evaluation of Cercospora Rodmanii as a Biological Control of Waterhyacinths,
W77-02528 1005 5G

PLANT PHYSIOLOGY

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Aspects of Carbon Metabolism in Filamentous Marine Fungi,
W77-02638 1006 5C

Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

Diphenamid Removal from Water and Metabolism by Aquatic Plants,
W77-07193 1015 5C

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

Aspects of Phosphate Utilization by Blue-Green Algae,
W77-09505 1019 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

Physiological Basis for the Reduction of Plant Growth Under Conditions of Irrigation with Brackish Water and Possible Methods of Amelioration,
W77-11063 1022 3C

On the Role of Leaf Water in Regulating Metabolism,
W77-11070 1022 2I

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

Response of Oats to Water Deficit. I. Physiological Characteristics,
W77-11100 1022 2I

Macrophytes and Water Purification,
W77-11694 1023 5G

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

Effect of Some Hydromechanical Factors on the Physiological State of Microcystis Aeruginosa Kuetz. Emend Ekenk, (In Russian),
W77-12321 1024 2I

PLANT PIGMENTS

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

A Comparison of Spectrophotometric Methods for the Determination of Phytoplankton Pigments, (In French),
W77-07581 1015 5A

PLANT POPULATIONS

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Seasonal Succession and Vertical Distribution of Phytoplankton in Lake Hayes and Lake Johnson, South Island, New Zealand,
W77-00517 1001 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

PLANT RESIDUES

Land Application of Waste Materials.
W77-04607 1010 5B

PLANT ROOTS
Precipitation of Calcium and Strontium Sulfates Around Plant Roots and Its Evaluation,
W77-01514 1003 2I

PLANT TISSUES
Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

PLANTATION CANAL (FLA)
Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

PLANTING MANAGEMENT
Kelp Habitat Improvement Project,
W77-02417 1005 2L

Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Suggested Mangrove Transplanting Techniques,
W77-03951 1008 5G

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

Crop Temperature Modification and Yield Potential in a Dwarf Spring Wheat,
W77-09939 1020 3F

New Soil Implement Makes a Good Impression,
W77-11096 1022 3F

PLASMA ELECTROLYTES
Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

PLASMA NEUTRALIZATION TEST
The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

PLASMA POLYMERIZATION
Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

PLASMIDS
Mercury and Mercurial Resistance Determined by Plasmids in Escherichia Coli and Pseudomonas Aeruginosa,
W77-03667 1008 5C

PLASTIC DEFORMATION
Ground Subsidence Due to Nonlinear Flow Through Deformable Porous Media,
W77-10763 1021 2F

PLASTIC PIPES
Discharge Characteristics of Spaced Slits in Polyethelene Pipes Under Pulsating Pressure Conditions,
W77-01443 1003 3F

Sewer Lining,
W77-01491 1003 8G

Plastic Lining Overcomes Rugged Terrain,
W77-02333 1005 8G

Effect of Polyvinyl Chloride on Water Microflora, (In Russian),
W77-02386 1005 5C

Innovations in Sewer Design and Construction,
W77-03399 1007 8G

Force Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

Prediction of Vinyl Chloride Monomer Migration from Rigid PVC Pipe,
W77-04720 1010 5B

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

Plastic Sewer Pipe Materials.
W77-07931 1016 8G

Plastic Pipes in Sewerage and Drainage,
W77-11554 1023 8G

Sewer Renovation Techniques.
W77-12449 1024 8C

PLASTICITY INDEX
Scouring of Cohesive Soils,
W77-02127 1005 2J

PLASTICS
A Simple Tube-Type Water Profile Sampler,
W77-00641 1002 5A

Sewer Lining,
W77-01491 1003 8G

Packaged Plant for Virgin Islands.
W77-02360 1005 8G

Sandwich Construction G.R.P.
W77-02368 1005 8G

Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Effluent Guidelines and Standards: Plastics and Synthetics Manufacturing Point Source Category,
W77-04928 1010 5G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Plastic Spheres for Waste Water Treatment.
W77-07028 1014 5D

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

Structural Polymer, ADIPRENE Replaces Iron Pipe Fittings on New Lightweight Aeration Assembly.
W77-07935 1016 8G

Polyethylene Sewer Force Main Takes Varying Pressures.
W77-08549 1017 8G

Pilot-Scale Investigations into the Use of Random-Pack Plastics Filter Media in the Complete Treatment of Sewage,
W77-09830 1020 5D

PVC Lining--The Answer to Corrosive Attack by H2S in Concrete Sewers and Structures.
W77-09835 1020 8G

Watertight Case for Pond Liners.
W77-09891 1020 5G

Plastics and Synthetics Manufacturing Point Source Category, Effluent Limitations and Guidelines.
W77-10474 1021 5G

Wastewater Collection,
W77-10549 1021 5D

Water Intake by a Water-Filled Plexiglas Permeameter Cell,
W77-11617 1023 2G

PLASTICS INDUSTRY
Technical and Microeconomic Analysis of Cadmium and its Compounds,
W77-03963 1008 5B

PLATING WASTE WATERS
Determination of Harmful Heavy Metals in Plating Waste Waters (Mekki haisui chu no yugaisei kinzoku no teiryo),
W77-05507 1011 5A

PLATING WASTES
Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

Application of Ion Exchange Resins in the Purification of Plating Sewage. 3. Transformation of Ion Exchange Resins During their Exploitation (Primenenie ionoobmennykh smol dlya ochistki stochnykh vod gal' vanicheskikh tsekhov. 3. izmenenie svoistv ionitov v khode ekspluatatsii),
W77-05521 1011 5D

PLATINUM
Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

PLATTE RIVER VALLEY (WYO)
Shallow Aquifers Relative to Surface Water, Lower North Platte River Valley, Wyoming,
W77-11402 1022 4B

PLATYMONAS
Lead Uptake in two Marine Phytoplankton Organisms,
W77-02708 1006 5C

PLAYAS
The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

PLEISTOCENE EPOCH
Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

Pleistocene Ice at the Base of the Barnes Ice Cap, Baffin Island, N.W.T., Canada,
W77-09116 1019 2C

PLEISTOPHORA OVARIAE
Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

PLEROCERCOIDS
The Invasion of Rate of Fish Yearlings with Plerocercoids of the Broad Fish Tapeworm in the Kama Water Reservoir, (In Russian),
W77-00541 1002 2I

PLEUROTAENIUM BREVE
Freshwater Algae of Southern Africa:3. Pleurotaenium Breve Raciborski Var. Engleri (Schmidle) Krieger and Penium Gonatozygiforme Claassen Sp. Nov. from Transvaal,
W77-11546 1023 5C

PLEXIGLASS SAMPLER
A Simple Tube-Type Water Profile Sampler,
W77-00641 1002 5A

PLUMATELLA-FUNGOSA
Role of Populations of Plumatella Fungosa (Pallas) (Bryozoa, Phylactolema) in the Self-Purification of a Pond and a Stream, (In French),
W77-04083 1008 5G

PLUMBING
A Sanitary Engineer's Viewpoint on Tall Buildings,
W77-10213 1021 8A

PLUME
Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

PLUMES
Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

Persistence of Dissolved Organic Compounds in Kraft Pulp and Paper Mill Effluent Plumes,
W77-12065 1023 5B

PLUMES (RIVERS)
Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

PLUSS SEE (GERMANY)
Pigment Cycle ia a North German Lake,
W77-07459 1015 5C

PLUSSEE (GERMANY)
Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

PLUTONIUM
The Distribution of Transuranic Elements in a Freshwater Pond Ecosystem,
W77-04510 1009 5C

Plutonium-237 and -246: Their Production and Use as Gamma Tracers in Research on Plutonium Kinetics in an Aquatic Consumer,
W77-04513 1009 5C

Americium in the Marine Environment-Relationships to Plutonium,
W77-04517 1009 5C

The Behavior of Plutonium Nuclides in the Irish Sea,
W77-04518 1009 5C

The Behavior of Plutonium in Aquatic Ecosystems: A Summary of Studies on the Great Lakes,
W77-04519 1009 5C

Plutonium Foodchains,
W77-04520 1009 5C

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

Distribution of Plutonium in Trinity Soils After 28 Years,
W77-09647 1020 5B

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Plutonium Isotopes in Aquatic Foodchains in the Baltic Sea,
W77-10395 1021 5C

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

Some Investigations into the Behavior of Plutonium in the Marine Environment,
W77-10398 1021 5C

Plutonium in the Aquatic Environment Around the Rocky Flats Facility,
W77-10399 1021 5B

The Behaviour of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, I. Biological Transport, Seasonal Cycling, and Residence Times in the Water Column,
W77-10400 1021 5B

The Behavior of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, II. Patterns of Deposition in the Sediments,
W77-10401 1021 5B

Further Investigations of Plutonium in Aquatic Biota of the Great Miami River Watershed Including the Canal and Ponds in Miamisburg, Ohio,
W77-11133 1022 5C

Dispersal of Plutonium from an Effluent Pulse in the Great Miami River,
W77-11134 1022 5C

Preliminary Investigations of the Chemical Speciation of Plutonium in Natural Waters of the Northeastern and Southeastern United States,
W77-11135 1022 5C

The Association of Transuranic Elements with Lacustrine Sediments,
W77-11136 1022 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

Distribution of Plutonium-237 in a Littoral Freshwater Microcosm,
W77-11530 1023 5B

Plutonium-237: Comparative Uptake in Chelated and Non-Chelated Form by Channel Catfish (Ictalurus Punctatus),
W77-11642 1023 5C

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

PLUTONIUM-238
Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

PLUVIAL CLIMATES
Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

PLUVIAL LAKES
Pluvial Lakes of Nevada and Estimated Full Pluvial Climates,
W77-08199 1017 2H

PNEUMATIC DOSING APPARATUS
A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

PNEUMATIC GRAB
A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

POCOSIN ECOSYSTEMS
Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

PODZOLIC SOILS
Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

PODZOLS
Effect of Groundwater Moisture on the Formation of the Sandy Soils of the Ket-Tym Region of the Ob River, (In Russian),
W77-02885 1006 2G

PODZOLS

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Chemical Composition of Lysimetric Waters of Podzolic Soils in the Komi ASSR, (In Russian),
W77-11442 1022 2G

Spatial Variation of Moisture in Podzolic Soils, (In Russian),
W77-12524 1024 2G

POECILA-RETICULATA

Studies on the Tolerance of the Guppy, Poecilia Reticulata (Peters), a Natural Enemy of Mosquito Larvae, to the Septic Pollution of Water, (In Japanese),
W77-02238 1005 5C

POECILIA-MEXICANA

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

POHJANPITAJANLAHTI BAY (FINLAND)

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

POIKILOHYDRIC PLANTS

Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

POIKILOTHERMS

Heat Resistance of Gametes of Marine Invertebrates in Relation to Temperature Conditions Under Which the Species Exist,
W77-06771 1014 5C

POINT-BAR

Sedimentary Model for Intertidal Mudflat Channels, with Examples from the Solway Firth, Scotland,
W77-01629 1004 2L

POINT SOURCE DISCHARGES

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

POINT SOURCE POLLUTION

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

Environmental Protection Agency: Petroleum Refining Point Source Category.
W77-04376 1009 5G

POINT SOURCES

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

POINT SOURCES (POLLUTION)

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Effluent Limitations and NPDES: Federal and State Implementation of the Federal Water Pollution Control Act Amendments of 1972,
W77-08956 1018 5G

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

POINT SOURCES (POLTLUTION)

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

POISEUILLE FLOW

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

POISONOUS PLANTS

Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

POISONS

Environmental Poisons.
W77-01547 1003 5C

Poisoning of, and Obstruction to, Fish.
W77-03500 1007 6E

POISSON RATIO

Return Periods of Hydrological Events,
W77-09958 1020 2B

POLAND

The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

Trace Element Content in the Bottom Sediments and Water of the Rivers Przemsza and Vistula in the Section of its Most Intense Pollution, (In Polish),
W77-04079 1008 5A

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

Stochastic Structure of a Process of Average Monthly Flows,
W77-07651 1016 2E

Geochemistry and Origin of Thermal Waters in Poland,
W77-08684 1018 2K

Studies on Mercury Content in Selected Fish Species from Pomeranian Gulf and Szczecin Firth (Badania nad Zawartoscia Rteci Ogolnej W Wybranych Gatunkach Ryb Zatoki Pomorskiej I),
W77-08781 1018 5C

Interdependence Between Several Different Species of Algae Investigated in Cultures,
W77-09470 1019 5C

Phytoplankton of Lake Rusalka (Poland), (In Polish),
W77-09507 1019 2H

Phytoplankton of Lake Malta (Poland) (In Polish),
W77-09515 1019 5C

Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

Purification of Pulp Mill Effluents by the Activated Sludge Method Using Pure Oxygen (Wyniki badan oczyszczania sciekow celulozowych metoda osadu czynnego z uzyciem czystego tlenu),
W77-10716 1021 5D

A Yearly Cycle of Changes in Dynamics of Production of the Chemoautotrophic Bacteria in Bottom Sediments of a Water Body,
W77-11505 1023 5C

Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

POLAND (ILAWA LAKELAND)

Dehydrogenase Activity in the Bottom Sediments of Three Lakes,
W77-12989 1024 5C

POLAND (KONIN AREA LAKES)

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

POLAND (MASURIAN LAKES)

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

POLAND (MAZURIAN LAKES)

Plankton Communities of Three Mazurian Lakes and Chlorophyll Content in Their Phytoplankton, (In Polish),
W77-01029 1002 5C

POLAND (PRECARPATHIANS)

Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

POLAND (SZESZUPA DRAINAGE AREA)

The Biomass, Organic Matter Contents and Calorific Values of Macrophytes in the Lakes of the Szeszupa Drainage Area,
W77-11511 1023 5C

POLAR REGIONS

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

Devon Island Ice Cap: Core Stratigraphy and Paleoclimate,
W77-06890 1014 2C

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

POLAR URAL MOUNTAINS (USSR)
Role of the Snow Cover in the Nature of Northern Landscapes and Its Physical Properties,
W77-03988 1008 2C

POLARIZATION
On Polarization Features of Radio Signals Scattered from the Sea Surface at Small Grazing Angles,
W77-01620 1004 2L

Electrode Kinetics of Antimony in Acidic Chloride Solutions,
W77-02533 1005 3A

POLARIZED RADIATION
Determination of Rainfall Distributions from Microwave Radiation Measured by the Nimbus 6 ESMR,
W77-10106 1021 2B

POLAROGRAPHIC ANALYSIS
Practical Use of Polarograph Models PPT-1 and OP-5122, (In Russian),
W77-01588 1004 5A

Method for Determination of Glyphosate Residues in Natural Waters Based on Polarography of the N-Nitroso Derivative,
W77-02582 1006 5A

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

Respiratory Behavior of Freshwater Fish in Conditions of Aquatic Confinement and Semi-Confinement, (In French),
W77-11410 1022 5A

POLE ASSIGNMENT TECHNIQUE
Control of Water Quality in Polluted Streams,
W77-10834 1022 5G

POLICY-MAKING PROCESS
Broadening the Approach to Evaluation in Resources Management Decision-Making,
W77-07545 1015 6B

POLICY PLANNING
A Land Use Decision Methodology for Environmental Control,
W77-07629 1016 6G

POLIO VIRUS
Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

POLIOVIRUS
Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Sorption of Poliovirus From Aqueous Solution with Active Carbon,
W77-05325 1011 5D

Inactivation of Poliovirus in Wastewater Sludge with Radiation and Thermoradiation,
W77-11756 1023 5D

POLIOVIRUS 1
Persistence of Poliovirus 1 in Soil and on Vegetables Grown in Soil Previously Flooded with Inoculated Sewage Sludge or Effluent,
W77-07050 1014 5C

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

POLIOVIRUS (INACTIVATION)
Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

POLIOVIRUS T-1
A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

POLIOVIRUSES
Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

POLITICAL ASPECTS
Effluent Charges and Political Realities--A Qualification,
W77-00392 1001 5G

Hurdles in the Path of Coastal Plan Implementation,
W77-03582 1007 6B

The International Law of Scientific Research in the Oceans,
W77-03687 1008 6E

Implementing the Coastal Plan: A New Test for the Concept of State Control for Areas of Critical State Concern,
W77-04922 1010 6E

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

Legal/Political Aspects,
W77-05382 1011 6E

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

Policy Innovation and Institutional Fragmentation,
W77-09053 1018 6E

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

Federalism and the Development of Outer Continental Shelf Mineral Resources,
W77-09531 1019 6E

New Roles For the Old Dam Builders,
W77-09552 1019 6F

The Politics of Salt: Background and Implications of the Mexican-American Treaty of 1944,
W77-11097 1022 6E

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

POLITICAL CONSTRAINTS
Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

Polluters' Profits and Political Response: Direct Control Versus Taxes: Comments and Reply,
W77-06700 1014 5G

The Current State of Environmental Policy,
W77-08005 1016 6G

The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
W77-08367 1017 6E

The Environmental Impulse and Its Competitors: Attitudes, Interests, and Institutions at Lake Tahoe,
W77-09145 1019 6B

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

POLLOCK
The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

POLLUTANT ABATEMENT
ethodology for Assessing Environmental Implications and Technologies: Nonferrous Metals Industries,
W77-09479 1019 5G

POLLUTANT IDENFICATION
Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

POLLUTANT IDENTIFACTION
Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

POLLUTANT IDENTIFICATION
Characteristics of Rural Household Wastewater,
W76-00048 1001 5A

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

Effects of Sewage Sludge or Effluent Application to Soil on the Movement of Nitrogen, Phosphorus, Soluble Salts and Trace Elements to Groundwaters,
W77-00029 1001 5C

Environmental Effects of Sludge Disposal in Sanitary Landfills,
W77-00030 1001 5C

Impact of Land Disposal of Sludges on Groundwater,
W77-00031 1001 5B

Bioassay Procedures for the Ocean Disposal Permit Program,
W77-00041 1001 5A

Trace Organic Components as Fingerprints in Gas Chromatographic Identification of Spilled Asphalts,
W77-00085 1001 5A

Associations of Chlorinated Hydrocarbons with Fine Particles and Humic Substances in Nearshore Surficial Sediments,
W77-00086 1001 5A

Respirometric Determination of BOD,
W77-00095 1001 5A

Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

Carcinogenic Nitrosamines and Their Precursors in Fresh and Polluted Waters,
W77-00146 1001 5A

Remote Detection of Water Pollutants by Computerized Laser-Raman Spectroscopy,
W77-00154 1001 5A

Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

The Extra 02 Evolved During Nitrate Utilization by Chlorella,
W77-00191 1001 5C

Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

Oil Spill-Source Correlation by Gas Chromatography: An Experimental Evaluation of System Performance,
W77-00218 1001 5A

Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Determination of Vinyl Chloride at Micrograms/Liter Level in Water by Gas Chromatography,
W77-00326 1001 5A

Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

A Balanced Regional Input-Output Model for Identifying Responsibility for Pollution Created by Industries Which Serve National Markets,
W77-00382 1001 5G

Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

Identification and Analysis of Organic Pollutants in Water.
W77-00455 1001 5A

GS/MS (Gas Chromatographic/Mass Spectrometric) Analyses of Organic Compounds in Treated Kraft Paper Mill Wastewaters,
W77-00456 1001 5A

Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

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W77-00460 1001 5B

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

Applications of Automatic Equipment to Water Analysis,
W77-00597 1002 5A

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Precision Aquarator Speeds COD Determination,
W77-00605 1002 5A

Hydrogen Sulfide in Bottom Water Near a Sewage Sludge Dumping Site,
W77-00620 1002 5A

Self-Monitoring Procedures: Basic Laboratory Skills,
W77-00624 1002 5A

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

Maintenance Manual: Instructions for Sensor Cleaning and Field Calibration. The Potomac River Water Pollution Monitoring System,
W77-00629 1002 5A

Manganese in Narragansett Bay,
W77-00642 1002 5A

A Double Blind Test for Determination of Intolerance to Fluoridated Water: Preliminary Report,
W77-00662 1002 5A

A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-00719 1002 5A

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

A Polarographic Method for the Determination of Metals in Waste Waters, (In Italian),
W77-01026 1002 5A

Lipid Transformation in Seawater by Oil-Oxidizing Microorganisms, (In Russian),
W77-01030 1002 5A

Installations for Monitoring Oil Content,
W77-01195 1003 5A

Oil-in-Water Monitor,
W77-01201 1003 5A

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

A New Method for the Determination of Nitrates in Drinking Water,
W77-01278 1003 5A

Molecular Forms of Arsenic in the Environment,
W77-01302 1003 5A

The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

The Spectrometric Determination of Mercury (at 253,65 nm) In Natural Water - A Brief Literature Survey,
W77-01442 1003 5A

The Experience with Monitoring Water Quality in Windhoek,
W77-01457 1003 5D

Energy Dispersive X-Ray Analysis (EDAX) as an Autopsy Technique for Copper-Caused Fish Mortality,
W77-01460 1003 5A

Viruses in Water, (Virusse in Water), (In Afrikaans),
W77-01481 1003 5A

Metal Enrichment of Sediments in Inland Waters - the Hartbeespoort Dam,
W77-01487 1003 5A

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection,
W77-01533 1003 5A

Concentration of Viruses in Water by the Polymer Two Phase System: Quantitative Study, (In French),
W77-01567 1004 5A

Hydrocarbon Determination in Waste Waters by Means of Channel Thin Layer Chromatography, (In Italian),
W77-01573 1004 5A

Use of Gas Chromotography for Studying the Accumulation of Organochlorine Pesticides in Water Aquatic Organisms, (In Russian),
W77-01574 1004 5A

Determination of Estimated Maximum Permissible and Maximum Residual Concentrations of Pesticides in Environmental Objects, Based on the Principles of Complex (Integral) Standardization, (In Russian),
W77-01575 1004 5G

Method of Determining the Total Biochemical Oxygen Demand of Sewage with the Use of Various Nitrification Inhibitors, (In Russian),
W77-01579 1004 5A

Practical Use of Polarograph Models PPT-1 and OP-5122, (In Russian),
W77-01588 1004 5A

Isolated Strains of Escherichia Coli from the Water Supply and Residual Waters of Large Hog Farms, (In French),
W77-01589 1004 5A

Photometric Determination of Isoprene and Neozone D in Water, (In Russian),
W77-01594 1004 5A

Significance of Suspended Load and Bottom Deposits in Self-Purification of the Selenga River from Petroleum Products, (In Russian),
W77-01606 1004 5G

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

Performance Characteristics for the Spectrophotometric Determination of Total Iron in Freshwater Using Hydrochloric Acid,
W77-01642 1004 5A

An Automated Method for the Determination of Low-Level Kjeldahl Nitrogen in Water and Waste Water,
W77-01643 1004 5A

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W77-01662 1004 5A

Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W77-01669 1004 5B

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

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W77-01722 1004 5A

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W77-01773 1004 5B

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W77-01782 1004 5A

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W77-01783 1004 5A

Relationships between Zooplankton Displacement Volume, Wet Weight, Dry Weight, and Carbon,
W77-01790 1004 5A

Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

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W77-01803 1004 5C

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Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

Determination of Small Quantities of Vinyl Acetate in Air, Water, Alcoholic Solutions and Food Products, (In Russian),
W77-02117 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring, Appendices,
W77-02149 1005 5A

Fecal Coliform Analysis: Effects of Elevated Temperatures on Quantitative Recovery,
W77-02182 1005 5A

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

Optical Remote Sensing of Water Pollutants,
W77-02192 1005 5A

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Polyelectrolyte Persistence in a Municipal Water Supply,
W77-02221 1005 5F

Tubificids (Oligochaeta: Tubificidae) - Indicators of the Quality of Water Bodies, (In Russian),
W77-02225 1005 5A

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W77-02226 1005 5A

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W77-02228 1005 5A

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W77-02229 1005 5A

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W77-02234 1005 5A

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W77-02235 1005 5A

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W77-02261 1005 5A

Extraction-Photometric Determination of Mercury in Soil and Water, (In Russian),
W77-02272 1005 5A

Case of Subsurface Water Pollution by Petroleum Product Wastes, (In Russian),
W77-02273 1005 5B

Comparison of Methods for the Determination of Total Phosphorus in Waters Containing Particulate Material,
W77-02293 1005 5A

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

Determination of Chemical Oxygen Demand (Die Bestimmung Der Chemischen Oxidierbarkeit),
W77-02380 1005 5A

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Gas and Leachate Generation in Various Solid Waste Environments,
W77-02405 1005 5E

Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques.
W77-02444 1005 5B

Direct of X-Ray Spectrometric Determination of Bromine in Water,
W77-02457 1005 5A

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

SKYLAB Study of Water Quality,
W77-02505 1005 5A

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Environment and Pollutions. Sources, Health Effects, Monitoring and Control,
W77-02521 1005 5G

Lipids of Smittium Culisetae,
W77-02547 1005 5A

Organic Compounds in Pulp Mill Lagoon Discharge,
W77-02558 1005 5A

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

Chemical Catalyst Interference in the Winkler Titration Determination of Dissolved Oxygen -- A Method for Correction,
W77-02564 1005 5A

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Method for Determination of Glyphosate Residues in Natural Waters Based on Polarography of the N-Nitroso Derivative,
W77-02582 1006 5A

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Medical and Biologic Effects of Environmental Pollutants. Chromium.
W77-02635 1006 5C

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Scanning Thermal Plumes,
W77-02682 1006 5A

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Determination of Small Amounts of Mercury,
W77-02729 1006 5A

Methods of Investigating Phytobenthos of Continental Water Bodies, (In Russian),
W77-02742 1006 5A

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

Computerized Scheme for the Identification of Aeromonads and Members of the Family Enterobacteriaceae,
W77-02758 1006 5A

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

Applications of Direct Aqueous Injection Gas Chromatography and Freeze Concentration for the Determination of Organic Compounds in Water and Waste Waters,
W77-02809 1006 5A

A Method for the Determination of Mercury in Sediments by the Automated Cold Vapor Atomic Absorption Technique after Digestion,
W77-02811 1006 5A

New Automated Colorimetric Method for the Determination of Chloride Using Chromotropic Acid,
W77-02812 1006 5A

Rex, A Computer Controlled Robot for in Situ Water Quality Monitoring,
W77-02814 1006 5A

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

Environmental Measurements of Air and Water Quality,
W77-02880 1006 5A

The Study of the Effect of Sea Roughness on the Remote Sensing of Oil Pollution by the Active Method, (In Russian),
W77-02898 1006 5A

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

Study of a Relationship Between Chemical and Bacteriological Pollution in the Coastal Zones, (In French),
W77-02903 1006 5A

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Hygienic Substantiation of the Maximum Permissible Concentration of Tin Tributylmethacrylate in Water Bodies, (In Russian),
W77-03107 1007 5A

Determination of Arsenic in Drinking Water by Means of Silver Diethyldithiocarbamate, (In Russian),
W77-03113 1007 5A

Molecular Activation Analysis and Its Application to Methylmercury Determination in Various Marine Samples,
W77-03202 1007 5A

A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

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W77-03292 1007 5B

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W77-03362 1007 5A

Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Intermittent Sand Filtration of Household Wasterwater,
W77-03452 1007 5D

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

Monitoring of Community Water Supplies,
W77-03463 1007 5A

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

A New Method of Automatic Determination of Nitrate in Waste Waters and Polluted Surface Waters (Ein Neues Verfahren Zur Automatischen Nitrat-Bestimmung in Abwaessern und Belasteten Oberflaechenwaessern),
W77-03466 1007 5A

Ultraviolet Purification System.
W77-03467 1007 5A

Nitrate Monitoring.
W77-03468 1007 5A

Microbiological Examination of Waters and Effluents,
W77-03470 1007 5A

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

Transferable Drug Resistance Associated with Coliforms Isolated from Hospital and Domestic Sewage,
W77-03478 1007 5A

Aerosol Production by Irrigation Equipment Used for Land Application of Waste Water,
W77-03484 1007 5A

Risk of Communicable Disease Infection Associated with Waste Water Irrigation in Agricultural Settlements,
W77-03485 1007 5C

On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

Sulphide Measurement Using Ammonium Molybdate,
W77-03657 1008 5A

Microanalyse de L'Incorporation d'un Metal Lourd Dans les Ecailles d'un Poisson,
W77-03663 1008 5A

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

Electron Capture Gas Chromatographic Methodology for the Quantitation of Polychlorinated Biphenyls: Survey and Compromise,
W77-03779 1008 5A

Gas Chromatographic Determination of Low Concentrations of Hydrocarbons in Water by Vapor Phase Extraction,
W77-03781 1008 5A

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Determination of Volatile Halogenated Hydrocarbons in Water by Gas Chromatography,
W77-03787 1008 5A

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

Identification of 1,1,1-Trichloroacetone (1,1,1-Trichloropropanone) in Two Drinking Waters: A Known Precursor in Haloform Reaction,
W77-03794 1008 5A

Identification of Gasoline Contamination of Groundwater by Gas Chromatography,
W77-03796 1008 5A

An Automatic, Continuous, Modular Wastewater Monitoring System,
W77-03801 1008 5A

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

Lightness and Color of the Sea Water in the Tagonoura-Port, (In Japanese),
W77-03965 1008 5A

Hydrocarbons in a Wilderness Lake,
W77-04048 1008 5B

Molecular Test for Oil Pollution in Surface Sediments,
W77-04058 1008 5B

Petroleum-Degrading Achlorophyllous Alga Prototheca Zopfi,
W77-04062 1008 5A

Odorous Compounds in Raw Water of Water Supplies: Identification of Camphor and P-Methylacetophenone, (In Japanese),
W77-04078 1008 5A

Trace Element Content in the Bottom Sediments and Water of the Rivers Przemsza and

Vistula in the Section of its Most Intense Pollution, (In Polish),
W77-04079 1008 5A

Use of New Type of Membrane Filters in Isolating Salmonella from Water of Surface Reservoirs, (In Russian),
W77-04082 1008 5A

Some Problems of Sanitary Microbiology, (In Russian),
W77-04085 1008 5A

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

Microcalorimetric Investigations in Polluted Surface Waters, (In German),
W77-04091 1008 5A

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

A Note on an in Situ Groundwater Sampling Procedure,
W77-04127 1009 5A

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

'Analysis, Characterization, and Effects of Heavy Metal Chelating Agents in Water',
W77-04141 1009 5A

An Improved Membrane Filter Method for the Enumeration of Phytoplankton,
W77-04151 1009 5A

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

Great Lakes Nutrient Assessment,
W77-04163 1009 5C

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Mobile Method of Determining Fluorides in Drinking Water, (In Russian),
W77-04337 1009 5A

One Chemical Company's Approach to the Problem,
W77-04446 1009 5A

Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Human Enteric Viruses in a Waste-Recycling Aquaculture System,
W77-04636 1010 5D

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal,
W77-04641 1010 5D

Characterization and Treatment of Combined Sewer Overflows,
W77-04644 1010 5D

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Wastewater Treatment Facility Evaluation, Rickenbacker AFB OH,
W77-04651 1010 5D

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Automatic Clarity Control of Overflow from Sedimentation Tank-With Sludge Pump Actuated by Photo-Electric Check of Sample Liquid.
W77-04668 1010 5D

Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

Comparison of Talc-Celite and Polyelectrolyte 60 in Virus Recovery From Sewage: Development of Technique and Experiments with Poliovirus (Type 1, Sabin)-Contaminated Multilitre Samples,
W77-04708 1010 5D

Fecal Coliform and Fecal Streptococcus Density Relationships in Waste Discharges and Receiving Waters,
W77-04711 1010 5B

Virus Movement in Soil Columns Flooded with Secondary Sewage Effluent,
W77-04712 1010 5B

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

BOD as Pollutional Parameter,
W77-04715 1010 5A

A Simple Tube-Type Water Profile Sampler,
W77-04717 1010 5A

4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

Survival of Coliform Bacteria in Sewage Sludge Applied to a Forest Clearcut and Potential Movement into Ground Water,
W77-04723 1010 5B

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Optimization of a Simple Spotting Procedure for X-ray Fluorescence Analysis of Waters,
W77-04798 1010 5A

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

Identification and Determination of Phthalate Esters in River Water by High-Performance Liquid Chromatography,
W77-04805 1010 5A

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Boise Measures Sludge Ultrasonically,
W77-04825 1010 5D

Petroleum Identification by Laser Raman Spectroscopy,
W77-04843 1010 5A

The Effect of Salt on Small, Artificial Lakes,
W77-04896 1010 5A

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Measurement and Forms of Nitrogen and Phosphorous,
W77-05169 1011 5A

Fate 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05170 1011 5A

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

The Use of Oxygen Deficit Measurements as an Index of Eutrophication in Temperate Dimictic Lakes,
W77-05222 1011 5C

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Marine Pollution Research Titles.
W77-05383 1011 5A

The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

Determination of Harmful Heavy Metals in Plating Waste Waters (Mekki haisui chu no yugaisei kinzoku no teiryo),
W77-05507 1011 5A

Determination of Phenols at Residual Levels by Ultraviolet Electronic Spectra (Determinarea fenolilor din apele reziduale cu ajutorul spectrelor electronice in ultraviolet),
W77-05510 1011 5A

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

Liquid Sampling,
W77-05658 1012 5A

Application of Biological Analysis in Investigations on Polluted Waters, (In Polish),
W77-05662 1012 5A

Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

Measurement of Complexation Properties of Humic and Fulvic Acids in Natural Waters with Lead and Copper Ion-Selective Electrodes,
W77-05679 1012 5A

Design and Optimization of a Teflon Helix Continuous Liquid-Liquid Extraction Apparatus and its Application for the Analysis of Organophosphate Pesticides in Water,
W77-05680 1012 5A

Gas Chromatographic Determination of Trace Amounts of Sulfur Compounds in Industrial Effluents,
W77-05681 1012 5A

Determination of Uranium in Natural Water by Preconcentration on Anion-Exchange Resin and Delayed-Neutron Counting,
W77-05682 1012 5A

Gas-Liquid Chromatographic Determination of Diflubenzuron (Dimilin) in Water as Its Trifluoroacetyl Derivative,
W77-05691 1012 5A

Evaluation of XAD-2 for Multiresidue Extraction of Organochlorine Pesticides and Polychlorinated Biphenyls from Natural Waters,
W77-05692 1012 5A

Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxy-Acetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

Data for Substantiating the Permissible Level of Boron Content in Drinking Water, (In Russian),
W77-05898 1012 5C

A Note on Plexiglas HS Flumes,
W77-05965 1012 5A

Asbestos in Potable Water,
W77-06016 1012 5A

Micro Gasometric Determination of Dissolved Oxygen and Nitrogen,
W77-06025 1012 5A

Analysis of Lead in Polluted Coastal Seawater,
W77-06159 1013 5A

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

The Determination of Trace Metals in Cladophora Glomerata -- C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

Research Related to Biological Evaluation of Complex Wastes,
W77-06476 1013 5A

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
W77-06505 1013 5A

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

The Measurement of Temperature Tolerance: Verification of an Index,
W77-06764 1014 5C

Water Chemistry and Water Quality,
W77-06778 1014 5A

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Blank and Salinity Corrections for Automated Nutrient Analysis of Estuarine and Sea Waters,
W77-06938 1014 5A

Adenosine Triphosphate (ATP) Levels in Microbial Cultures and a Review of the ATP Biomass Estimation Technique,
W77-06942 1014 5A

Automated Method for the Determination of the Phosphorus Content of Detergents,
W77-06944 1014 5A

Determination of Free Formic and Acetic Acids by Gas Chromatography Using the Flame Ionization Detector,
W77-06961 1014 5A

Characterization of Soluble Organic Matter in Leachate,
W77-07039 1014 5A

Forms of Sulfur in Sewage Sludge,
W77-07044 1014 5A

Drugs and Drug Metabolites as Environmental Contaminants: Chlorophenoxyisobutyrate and Salicylic Acid in Sewage Water Effluent,
W77-07045 1014 5A

The Chemical Characteristics of the City of Winnipeg Waste Water,
W77-07047 1014 5A

Escherichia Coli as a Sanitary-Indicator Microorganism, (In Russian),
W77-07067 1014 5A

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

Concentration and Determination of Trace Organic Pollutants in Water,
W77-07098 1014 5A

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

Quest for an Index of Community Structure Sensitive to Water Pollution,
W77-07136 1015 5A

A Light-Weight and Cheap Depth Sampler,
W77-07155 1015 5A

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Guidelines Establishing Test Procedures for the Analysis of Pollutants,
W77-07252 1015 5A

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Long Island Beach Pollution: June 1976,
W77-07325 1015 5B

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Inorganic Contaminants in Rural Drinking Waters,
W77-07372 1015 5A

The Larval Spirurid Nematodes of Fresh-Water Crustaceans: I. The Identification and the Examination of Their Pathogenicity,
W77-07458 1015 5C

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

Calculation of Calcium Carbonate-Carbon Dioxide Equilibrium in Water and Mixtures of Water,
W77-07513 1015 5A

Satellite Observations of Water Quality,
W77-07554 1015 5A

Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

A Comparison of Spectrophotometric Methods for the Determination of Phytoplankton Pigments, (In French),
W77-07581 1015 5A

Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Mercury in Water, a Bibliography, Volume 3,
W77-07605 1016 5A

Interlaboratory Quality Control Studies Nos. 12 and 13, Aluminum, Cadmium, Chromium, Cobalt, Copper, Lead, Iron, Manganese, Nickel and Zinc,
W77-07616 1016 5A

Determination of Morestan in Water, Soil, and Cucumbers by Thin-Layer Chromatography, (In Russian),
W77-07688 1016 5A

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

Results of R/V Yaquina Cruise Yaloc-74, Leg 3: Seabed Disposal Program, North Pacific

Study Area MPG-2, 33 degrees 20'N, 151 degrees 00'W, Nov. 30 - Dec. 21, 1974,
W77-07739 1016 5E

Effects of Sample Handling on the Composition of Marine Sedimentary Pore Water,
W77-07742 1016 5A

Petroleum Oil Detection Buoy System,
W77-07750 1016 5A

A Method for Determining Oil in Water,
W77-07756 1016 5A

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Easier Identification with MPN Procedure,
W77-07928 1016 5A

A Rapid Volumetric Method of Determining Fluorine in Water, (In Russian),
W77-07950 1016 5A

The Determination of Nitrates in Water, (In Russian),
W77-07966 1016 5A

Study of Free Living Amoebae in the Waters of Strabourg: Preliminary Report, (In French),
W77-08016 1016 5A

Hydrocarbons in Eastern Canadian Marine Waters Determined by Fluorescence Spectroscopy and Gas-Liquid Chromatography,
W77-08060 1016 5A

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

Determination of Pyridine in Farm Crops and Fish, (In Russian),
W77-08126 1017 5A

Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

Arsenic in Water and Fish from Lakes Hartwell, Keowee, and Jocassee, South Carolina,
W77-08191 1017 5A

A Survey of Cadmium Occurrence and Concentration in Fish from Eleven Major Reservoirs in South Carolina,
W77-08192 1017 5A

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

Chelating Agent Analysis by High Speed Liquid Chromatography,
W77-08286 1017 5A

Detection of Phosphate Adsorption onto Coal Humic Acids,
W77-08294 1017 5A

Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Possibilities and Role of Biological Analysis in Evaluating the Degree of Pollution of Water Bodies, (In Russian),
W77-08430 1017 5A

Some Experimental Data on the Study of the Biological Action of Ethylbutylamine as a Water Pollution Factor, (In Russian),
W77-08439 1017 5A

Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

A Method for Quantitative Determination of Ammonifying and Denitrifying Bacteria in Water with Applied Examples from Gravel-Pit Pools, (In Czech),
W77-08509 1017 5A

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

Enterovirus Types in Israel Sewage,
W77-08519 1017 5A

Rapid Agar Pour-Plate Technique for Detection and Enumeration of Faecal Coliforms in Sewage,
W77-08520 1017 5A

Improved Method for the Determination of Ethylenediaminetetraacetic Acid in Aqueous Environmental Samples by Gas-Liquid Chromatography,
W77-08521 1017 5A

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Determination of BOD After Freezing Water Samples (Bestimmung des BSB nach Einfrierung der Wasserproben),
W77-08546 1017 5A

Reliable pH Measurement When Effluent Conditions Get Tough,
W77-08592 1017 5A

Bituminoid Formation in the Mud Sediments of Domestic Sewage, (In Russian),
W77-08618 1018 5A

High Speed Liquid Chromatographic Analysis of Cobalamin Productivity and Distribution in Activated Sewage Sludge Treatment,
W77-08621 1018 5A

Study on the Post-Mortem Identification of Pollutants in the Fish Killed by Water Pollution: Detection of Arsenic,
W77-08775 1018 5A

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

Identification of Weathered Oil Films Found in the Marine Environment,
W77-08901 1018 5A

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

Complying with Discharge Regulations,
W77-08954 1018 5G

Colormetric Determination of Zinc Via Resorcinol Complex,
W77-09138 1019 5A

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 1.
W77-09259 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 2,
W77-09260 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 3.
W77-09261 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 4.
W77-09262 1019 5A

Heavy Metals in Water (Excluding Mercury), A Bibliography, Volume 5.
W77-09263 1019 5A

Correction of 'Tube Contribution' Interference in the Determination of Heavy Metals by X-Ray Spectroscopy Using the 'Additions Technique',
W77-09292 1019 5A

Precipitation Loading of Acid and Heavy Metals to a Small Acid Lake Near Sudbury (Ontario),
W77-09353 1019 5A

Technical and Microeconomic Analysis: Arsenic and Its Compounds,
W77-09465 1019 5B

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

The Importance of Monitoring Change,
W77-09591 1019 5A

A Methodology for Comparative Evaluation of Water Quality Indices,
W77-09632 1020 5A

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

Water System Virus Detection,
W77-09636 1020 5A

Microbial Formation of Volatile Selenium Compounds in Soil,
W77-09648 1020 2G

The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Gas Stripping, Sorption, and Thermal Desorption Procedures for Preconcentrating Volatile Polar Water-Soluble Organics from Water Samples for Analysis by Gas Chromatography,
W77-09746 1020 5A

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Chromatography of Chlorinated Biphenyls on an Ion-Exchange Resin,
W77-09749 1020 5A

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

Determination of Nitrilotriacetate in Environmental Water by Gas Chromatography of the Trimethylsilyl Ester,
W77-09751 1020 5A

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

Automated Catalytic Ultramicrodetermination of Manganese in Natural Waters with a Miniature Centrifugal Analyzer,
W77-09753 1020 2K

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

Computer Interpretation of Pollutant Mass Spectra,
W77-09776 1020 5A

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Method for Detecting Oil in Water,
W77-09813 1020 5A

Experiences with the Organic Carbon Analyzer (TOC) by Merz for Routine Monitoring at the BASF Purification Plant (Erfahrungen mit dem TOC-Schnellbestimmer nach Merz in der Routineueberwachung der BASF),
W77-09894 1020 5A

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

The Fate of Pollutants in Subsurface Environments,
W77-09915 1020 5B

Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

Estimation of Components of Soil Cation Exchange Capacity from Measurements of Specific Surface and Organic Matter,
W77-09971 1020 2G

Oil Spill Identification System.
W77-10024 1020 5A

Mercury Detection Simplified.
W77-10084 1020 5A

Parameters which Influence the Organic Carbon Determination in Water,
W77-10092 1020 5A

Microcystis Toxins: Isolation, Identification, Implications,
W77-10093 1020 5A

Dehydration of Marine Zoological Material - Volatility of Metabolised Selenium at 105-120C,
W77-10095 1020 5A

Effect of Surfactants on the Determination of Aluminum in Waters,
W77-10151 1021 5A

The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

Diatom Indicator Groups in the Assessment of Water Quality in the Jukskei-Crocodile River System (Transvaal, Republic of South Africa),
W77-10193 1021 5A

Photosynthetic Bacteria in Rietvlei Dam,
W77-10204 1021 5A

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

The Design of a Fully Automatic Liquid Injection Apparatus for Use on a Carbon Analyser,
W77-10209 1021 5A

Apparatus for the Automatic Determination of Oxygen Consumption in Fish,
W77-10217 1021 5A

Detection of L-Aspartate: 2-Oxoglutarate Aminotransferase in Two Nitrogen-Fixing Cyanophyta,
W77-10223 1021 5C

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Rapid Analysis of Acid Mine Drainage,
W77-10356 1021 5A

A Rapid Method for the Quantitative Isolation of Viruses from Polluted Water,
W77-10538 1021 5A

Recovery and Susceptibility Pattern of Faecal Streptococci Bacteriophages,
W77-10641 1021 5A

Water Analysis,
W77-10648 1021 5A

Sample Pretreatment for Determination of Some Anions in Highly Polluted Effluents (Uprava vzorku pred stanovenim nekterych aniontu v silne znecistenych odpadnich vodach),
W77-10692 1021 5A

Organic Compounds in Red Pine Kraft Bleaching Spent Liquor (In Japanese),
W77-10699 1021 5A

On the Properties of Waste Water Produced in Ozone Bleaching of Kraft Pulp (In Japanese),
W77-10700 1021 5A

Determination of Contaminants in Kraft Mill Condensates Using Gas Chromatography (Stanoveni kontaminujicich latek v kondenzatech ze sulfatove celulozky pomoci plynove chromatografie),
W77-10712 1021 5A

Daphnia Pulex Pulls Its Weight in Pulp Mill Toxicity Tests,
W77-10718 1021 5A

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Effects of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona, With a Section Statistical Analysis,
W77-10868 1022 5A

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

A Colorimetric Method for Determination of Saxitoxin,
W77-11047 1022 5A

Water Quality in Vicinity of Fenton Hill Site, 1975,
W77-11129 1022 5A

Acidity in Rainfall,
W77-11138 1022 5A

A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

Compounds of Zinc and Copper in Sewage Sludge Determined by Electron Spectroscopy,
W77-11482 1022 5A

Evaluation of Recovery Methods to Detect Coliforms in Water,
W77-11483 1022 5A

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-11484 1022 5A

Proceedings of Workshop on Microorganisms in Urban Stormwater,
W77-11489 1022 5A

Microorganisms in Urban Stormwater -- A U.S. Environmental Protection Agency Program Overview,
W77-11490 1022 5A

The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

Development of High Pressure Liquid Chromatographic Techniques,
W77-11908 1023 5A

Shipboard Oil-in-Water Monitor,
W77-11910 1023 5A

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewater,
W77-12139 1023 5D

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

Potentionmetric Determination of Microamounts of Sulfur Compounds in Kraft Mill Effluents (Potentsiometricheskoe opredelenie mikrokolichestv sernistykh soedinenii v stochnykh vodakh sul'fattsellyuloznogo proizvodstva),
W77-12354 1024 5A

Use of Pyrolysis/Gas-Chromatography in Analyzing Low-Volatility Organic Water Pollutants (Die Anwendung der Pyrolyse-Gaschromatographie zur Analytik von schwerluechtigen organischen Wasserinhaltsstoffen),
W77-12363 1024 5A

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

Meteorological Regimes for the Classification of Aerospace Air Quality Predictions for NASA-Kennedy Space Center,
W77-12542 1024 5A

An Analysis of the Management Information System for U.S. Coast Guard Aircraft Pollution Patrols,
W77-12562 1024 5A

The Trace Element Composition of Mine Waters, (In Russian),
W77-12969 1024 5A

Thin-Layer Chromatographic Determination of Cadmium in Water and Biological Media, (In Russian),
W77-12970 1024 5A

POLLUTANT INDENTIFICATION

Heavy Metal and Chlorinated Hydrocarbon Residues in California Sea Lions (Zalophus Californianus Californiaus),
W77-01261 1003 5C

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

POLLUTANT LOADINGS

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

POLLUTANT REMOVAL

Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

POLLUTANT TRANSPORT

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

POLLUTANT WASHOFF THEORY

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

POLLUTANTS

Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

Of PCB PPMS from GE and A Snafu from EPA and DEC,
W77-00978 1002 5A

Statistical Properties of Environmental Data: Considerations for Bioaccumulation and Toxicity Studies of Pollutants,
W77-01316 1003 5C

An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

The Effects of Water Pollution from Non-Point Sources as It Relates to the Health of Man,
W77-02058 1004 5G

Contaminants in the New York Bight,
W77-02799 1006 5B

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Deleterious Substances in Streams.
W77-03721 1008 6E

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

Effects of Man's Activities on Groundwater Quality,
W77-07359 1015 5B

The Problem of the Behavior of Chemical Pollutants in the Environment, (In Russian),
W77-08028 1016 5B

Hygienic Criteria of the Complex Action of Chemical Environmental Pollutants, (In Russian),
W77-08029 1016 5G

Simulation of Two-Dimensional Contaminant Transport with Isoparametric Hermitian Finite Elements,
W77-08829 1018 5B

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

Environmental Impacts of Advanced Wastewater Treatment at Ely, Minnesota,
W77-10536 1021 5D

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

POLLUTANTS IDENTIFICATION

Chromatographic Investigation of Inositol Phosphate Esters in Lake Waters,
W77-11477 1022 5A

POLLUTION

Protection of the Marine Environment from Pollution,
W77-00973 1002 5G

Inland Water Pollution.
W77-01697 1004 5G

Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

Achievements in Marine Conservation, 1. Marine Parks,
W77-06049 1012 5G

POLLUTION ABATEMENT

The Budding Environmental Clean-Up (A Viewpoint): Part I. Pollution and Environment,
W77-00194 1001 5G

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Spill Prevention--Phase II,
W77-00201 1001 5G

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

Design of a Refinery Dock to Prevent Oil Spills,
W77-00205 1001 5G

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

Prevention--The Best Method of Controlling Pollution,
W77-00207 1001 5G

Prevention is Best,
W77-00208 1001 5G

Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

Oil Spill Prevention Practices in Pipelines and Terminals,
W77-00210 1001 5G

Tagging Oil-Residues in Tankers with Microparticles,
W77-00211 1001 5A

The Development of an Experimental Airborne Laser Oil Spill Remote Sensing System,
W77-00213 1001 5A

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

An Optimal Prevention and Detection Model for Pollution Patrol,
W77-00217 1001 5A

Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Behavioral Characteristics and Cleanup Techniques of North Slope Crude Oil in an Arctic Winter Environment,
W77-00230 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Case Studies of the USN Supervisor of Salvage, Salvage Related Oil Pollution Incidents,
W77-00260 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Quantitative Evaluation of Mechanical Oil Spill Cleanup Devices,
W77-00263 1001 5G

Oil/Sorbent Harvesting Systems for use on Vessels of Opportunity,
W77-00264 1001 5G

Status Report on Abatement of Effluents from the Canadian Pulp and Paper Industry -- 1974.
W77-00331 1001 5G

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

A Model of Recycling and Pollution Control,
W77-00711 1002 5G

Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

Environmental Protection and Spatial Allocation of Investments,
W77-00922 1002 6G

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

Control of Water Pollution - A Hidden Resource, (Beheer oor waterbesoedeling - 'n verborge hulpbron),
W77-01489 1003 5G

Pollution Abatement in Wisconsin, Historical Development and Present Status,
W77-01524 1003 5G

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

Future Environmental Needs and Costs,
W77-02044 1004 6G

Effects of Pollution on Human Health,
W77-02045 1004 6G

Introductory Remarks on Environmental Control Strategies,
W77-02048 1004 6G

Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

Industrialist View,
W77-02050 1004 6G

Government View,
W77-02051 1004 6G

Panel 'A' - Automotive Emissions,
W77-02052 1004 6G

Panel 'D' - Power Plant and Industrial Emissions and Effluents,
W77-02055 1004 6G

Agricultural and Other Non-Point Sources of Water Pollution: Non-Point Sources and Cost Effectiveness,
W77-02057 1004 5G

Control of Ambient SO2 Concentrations by Noncontinuous Emission Limitation Large Coal-Fired Power Plants,
W77-02059 1004 6G

State Consideration of the Rivers Zeta and Moraca Based on the Chemical Control, (In Serbo-Croatiau),
W77-02266 1005 5G

Measures for the Protection of the Rivers Zeta and Moraca, (In Serbo-Croatiau),
W77-02267 1005 5G

Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

A Cost-Risk-Benefit Analysis of Toxic Substances,
W77-02844 1006 5G

Origin of Nitrogen Pollution in Surface and Waste Waters (Origines Des Pollutions Azotees Dans Les Eaux Superficielles Et Les Eaux Usees),
W77-03423 1007 5D

Water Pollution.
W77-03495 1007 6E

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Development of Fast Current Oil Response System,
W77-03904 1008 5G

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Fast Current Oil Response System - Stage I, SVROS Development,
W77-03920 1008 5G

A Note on Effluent Charges and Market Structure,
W77-03955 1008 5G

Effluent Charges and Licenses Under Uncertainty,
W77-03959 1008 5G

Examination of Environmental Policies Using Production and Pollution Microparameter Distributions,
W77-03961 1008 6G

The Symmetry of Effluent Charges and Subsidies for Pollution Control,
W77-03962 1008 5G

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

Pollution Abatement and Regional Welfare: A Control Theory Approach,
W77-04169 1009 6G

Benefits from Water Pollution Abatement, Recreation.
W77-04299 1009 5G

Askew V Game and Fresh Water Fish Commission (Pollution Abatement Efforts Held Constitutional).
W77-04379 1009 6E

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

The Efficiency of Taxes and Subsidies in Reducing Emission by a Risk-Averse Firm,
W77-04564 1009 5G

Enforcement Under the Illinois Pollution Law,
W77-04567 1009 5G

Farm Waste Composting Process.
W77-04619 1010 5B

Environmental Quality Standards Under Conditions of Uncertainty,
W77-04858 1010 6G

Model Water Pollution Statute,
W77-05042 1010 5G

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Industrial Water and Air Pollution Control,
W77-05512 1011 5D

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Proceedings of Seminars on Water Pollution Abatement Technology in the Pulp and Paper Industry.
W77-05708 1012 5D

Regulations and Waste Characterization,
W77-05709 1012 5G

Specialized Internal Practices (For Pollution Abatement),
W77-05715 1012 5D

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

Australia Makes Impressive Progress in Pollution Abatement.
W77-06149 1013 5G

How Much Pollution Control for What Price,
W77-06179 1013 5G

The Generation of Residual Flows in Norway: An Input-Output Approach,
W77-06698 1014 5G

Uncertainty and the Choice of Pollution Control Instruments,
W77-06704 1014 6G

Optimal Investment in Pollution Control Capital in a Neoclassical Growth Context,
W77-06705 1014 6G

An Input-Output Analysis of Environmental Preservation,
W77-06706 1014 6G

USGS Scientists Bring California Water Supply into Compliance with Federal Regulations,
W77-06853 1014 5G

Pollution Prevention, Not Control Called Key to a Clean Environment.
W77-06861 1014 5G

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

Toxic Waste Disposal,
W77-07209 1015 5G

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

A Mini-Pollution Tannery,
W77-07225 1015 5D

Economic Aspects of Pollution Abatement, Part 1,
W77-07260 1015 6E

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1975,
W77-07334 1015 5G

Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

Proceedings, Water Pollution Abatement Technology in the Pulp and Paper Industry, (1975),
W77-07562 1015 5D

Lake Restoration by Bottom Water Siphoning, (In German),
W77-07577 1015 5G

Reduction in Sewage Contamination in Sydney Rock Oysters,
W77-07946 1016 5G

Watershed Management and Water Quality,
W77-07951 1016 5G

Reorganizing Pollution Control in the U.K.
W77-08111 1017 5G

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Biochemical Transformation and Detoxification of Mercury in Aquatic Environment,
W77-08289 1017 5C

Progress in MHI's Integrated Techniques for Environmental Protection,
W77-08533 1017 5D

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

Flocculant Use on Tankers,
W77-08906 1018 5G

International Law and Radioactive Pollution by Ocean Dumping: 'With All Their Genius and With All Their Skill...'
W77-08957 1018 5G

PL 92-500: A Dose of Chaos,
W77-08959 1018 5G

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

The Environmental Quality Monitoring Report.
W77-09231 1019 5G

Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

At Sea Testing of a High Sea Oil Recovery System,
W77-09237 1019 5G

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

Control of Water Pollution from Cropland: Volume II--An Overview.
W77-09390 1019 5G

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

The Economic Impact of Environmental Programs.
W77-09457 1019 6B

Economic Assessment of Proposed Toxic Pollutant Effluent Standards for Manufacturers and Formulators of Aldrin/Dieldrin, DDT, Endrin and Toxaphene.
W77-09478 1019 5G

Resources Allocation to Optimize Mining Pollution Control,
W77-09481 1019 5G

Urban Runoff Pollution Control--Technology Overview,
W77-09823 1020 5D

Chicago Plan Designed for Pollution and Flood Control.
W77-09838 1020 4A

Impact on Marine Benthos of Waste Water Discharge,
W77-09846 1020 5C

Cross Canada Report,
W77-09923 1020 5G

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

United States v Reserve Mining Company (Discharge of Taconite Tailings into Lake Superior Causing Discoloration of Surface Water).
W77-10499 1021 6E

A Long-Range Program for Meeting the Paper Industry's Environmental Protection Technical Information Needs,
W77-10720 1021 5G

Economic Analysis of Effluent Guidelines: Textiles Industry,
W77-10749 1021 5G

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coal Mine Point Source Category Effluent Guidelines and Standards.
W77-11152 1022 6E

Agricultural Legislation's Potential in Reducing Discharge of Pollutants,
W77-11395 1022 5G

Analysis of the Impact of Delaying Compliance with 1977 Water Quality Standards,
W77-11453 1022 5G

Criteria for Developing Pollution Abatement Programs for Inactive and Abandoned Mine Sites,
W77-11454 1022 5G

Oil-Spill Dispersant for Marine Pollution.
W77-11549 1023 5G

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

Development of a High Seas Oil Recovery System, Phase II Prototype Design, Fabrication, and Testing,
W77-12146 1023 5G

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

Nonpoint Sources: State-of-the-Art Overview,
W77-12614 1024 5G

Resource Adequacy in Limiting Nonpoint Pollution,
W77-12615 1024 5B

A Note on the Use of Economic Incentives in Water Pollution Abatement,
W77-12718 1024 5G

Water Quality Research.
W77-12900 1024 5G

The MIT/Marine Industry Collegium Opportunity Brief No. 9. Oil Spills: Problems and Opportunities.
W77-12917 1024 5G

POLLUTION ABATEMENT SUBSIDIES
The Efficiency of Taxes and Subsidies in Reducing Emission by a Risk-Averse Firm,
W77-04564 1009 5G

POLLUTION CHARGES (TAXES)
A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

POLLUTION CONTROL
Oklahoma Planning and Resources Board.
W77-04382 1009 6E

POLLUTION CONTROL AGENCY GRANTS
Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

POLLUTION CONTROL METHODS
Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

POLLUTION CONTROL PUBLIC POLICY
A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

POLLUTION DISPERSAL
Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

POLLUTION ECOLOGY
Pollution Ecology of Freshwater Invertebrates,
W77-00557 1002 2I

POLLUTION EFFECTS
Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

POLLUTION FEES
Pollution Fees are for Real in France,
W77-06046 1012 5G

POLLUTION FIXATION
Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

POLLUTION GRADIENTS
Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

POLLUTION IDENTIFICATION
A Multiparameter Oil Pollution Source Identification System,
W77-00222 1001 5A

Simple Method Measures Suspended Solids,
W77-00596 1002 5A

Variable Nature of Chemical Composition of Sewage Sludges,
W77-00602 1002 5A

Phosphorus and Carbon Distributions in a Polluted Coastal Environment,
W77-07368 1015 5B

An Express Method for Establishing Minimum Permissible Concentrations for Waters Used for Commercial Fishing, (In Russian),
W77-12979 1024 5A

POLLUTION INDEX
Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

POLLUTION INDICATORS
Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

POLLUTION LICENSES
Polluters' Profits and Political Response: Direct Control Versus Taxes: Comments and Reply,
W77-06700 1014 5G

POLLUTION LOADS
Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

POLLUTION POTENTIAL
A Handbook for Estimating the Pollution Potential of Beef, Dairy, Sheep and Swine Feedlots in the North Central Region,
W77-01543 1003 5B

POLLUTION RIGHTS
A Note on the Fair Division of Pollution Rights,
W77-08006 1016 6G

POLLUTION SOURCE CONTROL
Pollution Prevention, Not Control Called Key to a Clean Environment.
W77-06861 1014 5G

POLLUTION TAXAS (CHARGES)
A Comprehensive Systems Engineering Study of the True Economic Value of Unpolluted Water Versus Varying Degrees of Polluted Water,
W77-02220 1005 5G

POLLUTION TAXES (CHARGES)
The Environment and the Structure of Social Goals,
W77-00181 1001 5G

Effluent Charges and Political Realities--A Qualification,
W77-00392 1001 5G

A Note on Effluent Charges and Market Structure,
W77-03955 1008 5G

Effluent Charges and Licenses Under Uncertainty,
W77-03959 1008 5G

Examination of Environmental Policies Using Production and Pollution Microparameter Distributions,
W77-03961 1008 6G

The Symmetry of Effluent Charges and Subsidies for Pollution Control,
W77-03962 1008 5G

How Should Industry View Pollution Charges,
W77-04557 1009 5G

The Efficiency of Taxes and Subsidies in Reducing Emission by a Risk-Averse Firm,
W77-04564 1009 5G

Pollution Fees are for Real in France,
W77-06046 1012 5G

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

Water Quality Control and Tax Incentives: A Panacea for Water Pollution,
W77-06552 1013 5G

Polluters' Profits and Political Response: Direct Control Versus Taxes: Comments and Reply,
W77-06700 1014 5G

Effluent Charges and Pollution Control: A Case Study,
W77-06791 1014 5G

Uncertainty and the Choice of Pollution Control Instruments,
W77-06704 1014 6G

Industrial Effluent Surcharging: A Case Study of Kitchener, Ontario,
W77-09413 1019 5G

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

The (West German) Waste Water Discharge Tax Law (Das Abwasserabgabengesetz),
W77-10695 1021 5G

The California Coastal Plan: A Critique,
W77-11855 1023 6B

A Note on the Use of Economic Incentives in Water Pollution Abatement,
W77-12718 1024 5G

POLLUTION THRESHOLD

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

POLLUTION ZONES

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

POLLUTOGRAPHS

Sampling and Analysis of Stormwater Runoff from Urban and Semi-Urban/Rural Watersheds - Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities,
W77-02995 1006 5B

POLLUTUTANT IDENTIFICATION

Versatile Multirange Analytical Manifold for Automated Analysis of Nitrate-Nitrogen,
W77-00285 1001 5A

POLOGRAPHIC ANALYSIS

A Polarographic Method for the Determination of Metals in Waste Waters, (In Italian),
W77-01026 1002 5A

POLONIUM

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

POLY ALUMINUM CHLORIDE

Poly Aluminum Chloride in Sludge Treatment,
W77-07912 1016 5D

POLYACRYLAMIDE

Synthetic Flocculants for the Purification of Kraft Mill Effluents (Sinteticheskie flokulyanty dlya ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-03812 1008 5D

POLYAMINES

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

POLYARTEMIA-FORCIPATA

Ecological and Physiological Patterns of Polyartemia Forcipata (Anostraca) from Tundra Water Bodies of the East Murman, (In Russian),
W77-00525 1001 2I

POLYBROMINATED BIPHENYLS

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Survey of Industrial Processing Data. Task II--Pollution Potential of Polybrominated Biphenyls,
W77-10750 1021 5B

POLYCHAAETES

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

POLYCHAETE WORMS

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

POLYCHAETES

Detrital Utilization by the Polychaete, Capitella Capitata,
W77-02435 1005 5C

Study on the Long-Term Effects of Some Detergents on the Sequence of Development of the Sedentary Polychaete, Capitella Capitata (Fabricius), (In French),
W77-04067 1008 5C

An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

POLYCHEATES

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

POLYCHLORINAED BIPHENYLS

Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

POLYCHLORINATE BIPHENYLS

Levels of PCBs and DDTs in Mussels from the N.W. Mediterranean,
W77-06487 1013 5B

POLYCHLORINATED BIPHENYL

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

POLYCHLORINATED BIPHENYLS

National Conference on Polychlorinated Biphenyls (November 19-21, 1975, Chicago, Illinois), Proceedings.
W77-00460 1001 5B

The View of the Paper Industry on the Occurrence of PCB's in the Environment and the Need for Regulation,
W77-00461 1001 5B

Statement Relating to Polychlorinated Biphenyls on Behalf of the Wisconsin Paper Council,
W77-00462 1001 5B

Review of PCB (Polychlorinated Biphenyls) in the Environment.
W77-00463 1001 5B

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Of PCB PPMS from GE and A Snafu from EPA and DEC,
W77-00978 1002 5A

PCB Contents in Marine Animals Collected in the East China Sea, (In Japanese),
W77-01255 1003 5C

The Accumulation of PCB as a Function of Growth in Japanese Anchovy Caught in Osaka Bay, (In Japanese),
W77-01265 1003 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

Polychlorinated Biphenyls (PCB's) in Municipal Wastewaters: An Assessment of the Problem in the Canadian Lower Great Lakes,
W77-02768 1006 5A

Bacterial Degradation of Polychlorinated Biphenyls II. Rate Studies,
W77-02851 1006 5C

Measurements of Polychlorinated Biphenyl (PCB) in Water, Sediments, and Organisms of Two Rivers in Hiroshima Prefecture, (In Japanese),
W77-02899 1006 5A

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Trends of PCB and DDT in Fish and Aquatic Birds,
W77-03677 1008 5B

Electron Capture Gas Chromatographic Methodology for the Quantitation of Polychlorinated Biphenyls: Survey and Compromise,
W77-03779 1008 5A

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

Studies on the Distribution of 14 C Labelled PCB in the Body. II. the Distribution in Gold Fish (Carrasius Auratus), (In Japanese),
W77-05488 1011 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Evaluation of XAD-2 for Multiresidue Extraction of Organochlorine Pesticides and Polychlorinated Biphenyls from Natural Waters,
W77-05692 1012 5A

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

PCB Investigations of the Mississippi River and its Tributaries Water, Bottom Sediment and Point Sources,
W77-06368 1013 5C

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Transport Pathways of Polychlorinated Biphenyls in Atlantic Water,
W77-06469 1013 5B

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

Polychlorinated Biphenyls.
W77-06554 1013 5C

An Offshore Biomonitoring System for Chlorinated Hydrocarbons,
W77-06641 1014 5A

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Burning Waste Chlorinated Hydrocarbons in a Cement Kiln,
W77-06946 1014 5E

Dynamics of Storage of Organochlorine Pollutants in Herring Gulls,
W77-07127 1015 5C

PCB Contents in the Muscle of Marine Animals Collected in the Sea near Hakodate (In Japanese),
W77-07315 1015 5C

Extraction and Separation of Polychlorinated Biphenyls from Pesticide Monitoring Samples,
W77-07826 1016 5A

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

The Accumulation and Distribution of Organochlorines and Some Heavy Metals in American Falls Reservoir Fishes, Water and Sediment,
W77-08287 1017 5B

Chlorobiphenyls and PCB's: Formation During Chlorination,
W77-08538 1017 5A

Chlorine Combining with Sewage,
W77-08571 1017 5D

Polychlorinated Biphenyls in Adult Mayflies (Hexagenia bilineata) from the Upper Mississippi River,
W77-08783 1018 5C

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

Chromatography of Chlorinated Biphenyls on an Ion-Exchange Resin,
W77-09749 1020 5A

Effects of Aroclor (R) 1254 on Brook Trout, Salvelinus Fontinalis,
W77-09783 1020 5C

Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-10728 1021 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-10729 1021 5C

Review of PCB Levels in the Environment,
W77-10935 1022 5B

Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

Depression of Primary Productivity by Aroclor 1232 in an Interspecific Lentic Algal Assembledge,
W77-11304 1022 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Ultraviolet Light Enhances Ozonization of Organics Dissolved in Wastewater.
W77-11749 1023 5D

Organochlorines and Heavy Metals in the Harbour Seal Phocasvitulina from the German North Sea Coast,
W77-12015 1023 5C

Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Polychlorinated Biphenyl Compounds (PCB's) and Fishery Resources,
W77-12213 1023 5C

Residues of Chlorinated Hydrocarbons in North Sea Animals in Relation to Biological Parameters,
W77-12229 1023 5B

Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

PCBs Can Be Made Virtually Harmless.
W77-12336 1024 5D

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Polychlorinated Biphenyls in the Hudson River (Hudson Falls-Fort Edward, New York State),
W77-12853 1024 5B

Upper Bay Survey, Vol. II. Technical Report,
W77-12880 1024 5A

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

Criteria Document for PCB's,
W77-12882 1024 5A

Polychlorinated Biphenyls in Natural Waters and Their Biological Danger, (In Russian),
W77-12967 1024 5A

POLYCHLORINATED BIPHENYLS (PCB'S)

Proposed Toxic Pollutant Effluent Standard for Polychlorinated Biphenyls,
W77-07253 1015 6E

POLYCHLORINATED DIBENZOFURAN

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

POLYCHLORINATED HYDROCARBON PESTICIDES

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

POLYCHLORINATED NAPHTHALENES

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

POLYCHLORINATED STYRENES

Isolation and Identification of Polychlorinated Styrenes in Great Lakes Fish,
W77-05621 1012 5A

POLYCRYSTALLINE DIAMOND

Diamond Composites Used in New Bits.
W77-08651 1018 8G

POLYCULTURE

Harvesting the Ocean--On Land,
W77-00718 1002 5G

POLYCYCLIC AROMATIC HYDROCARBONS

Decontamination of Water Contaminated with Polycyclic Aromatic Hydrocarbons (PAH). I. Action of Chlorine and Ozone on PAH Dissolved in Doubly Distilled and in De-Ionized Water,
W77-03369 1007 5D

POLYDORA

The Macrobenthic Fauna of Rocks and Boulders in the Lubeck Bay (Western Baltic Sea) Investigated from the Underwater Laboratory 'Helgoland',
W77-10232 1021 5C

POLYELECTROLYTES

The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

Polyelectrolyte Persistence in a Municipal Water Supply,
W77-02221 1005 5F

Recent Developments in the Use of Polyelectrolytes,
W77-03569 1007 5D

Comparison of Talc-Celite and Polyelectrolyte 60 in Virus Recovery From Sewage: Development of Technique and Experiments with Poliovirus (Type 1, Sabin)-Contaminated Multilitre Samples,
W77-04708 1010 5D

Aiding of Suspended Solids Removal by Polyelectrolytes (Zastosowanie polielektrolitow do stracania zawiesin w wodach dolowych),
W77-05506 1011 5D

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Effects of Polyelectrolytes and Clay Colloids on Carbon Adsorption,
W77-07926 1016 5D

Role of Polyelectrolytes in the Filtration of Colloidal Particles from Water and Wastewater,
W77-08339 1017 5D

Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

Planning, Executing and Profiting from Polymer Trials,
W77-12425 1024 5D

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

POLYETHYLENE PIPE

Force Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

POLYETHYLENE TUBING

Field Evaluation of 102-mm (4-inch) Corrugated Polyethylene Tubing,
W77-10172 1021 8G

POLYHALOGENATED MONOTERPENES
Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

POLYKRIKOS
A Certain Marine Catenate Dinoflagellate Tentatively Applied for Detecting Carcinogens,
W77-08795 1018 5A

POLYMER COAGULANTS
Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

POLYMER-IMPREGNATED CONCRETE
Concrete-Polymer Materials--Final Report (USBR-BNL-AEC-OSW Cooperative Program),
W77-07803 1016 8F

POLYMER TWO PHASE SYSTEMS
Concentration of Viruses in Water by the Polymer Two Phase System: Quantitative Study, (In French),
W77-01567 1004 5A

POLYMERIZATION
Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

POLYMERS
Polymers Play Increased Role in Water Clarification,
W77-00082 1001 5D

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

A Study of Molecular Parameters Influencing Polymer Drag Reduction,
W77-01915 1004 8B

Polymers Cut Cost of Phosphorus Removal,
W77-02374 1005 5D

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

Polymeric Adsorbents for Treatment of Waste Effluents,
W77-06213 1013 5D

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

The Use of Polymers for Improving Chemical Sludge Dewatering on Sand Beds,
W77-07033 1014 5D

Purifying Water,
W77-07061 1014 5D

Techniques for Purifying Oily Waste Water,
W77-07213 1015 5D

Purification of Industrial Waste Water Containing Organic Impurities--By Contacting with Adsorbent Polymer Material in Solvated Gel State.
W77-07222 1015 5D

Concrete-Polymer Materials--Final Report (USBR-BNL-AEC-OSW Cooperative Program),
W77-07803 1016 8F

Increasing Sewer Capacity by Polymer Dosing,
W77-07883 1016 8G

Phosphorus is Removed at Low Cost,
W77-07915 1016 5D

Structural Polymer, ADIPRENE Replaces Iron Pipe Fittings on New Lightweight Aeration Assembly.
W77-07935 1016 8G

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

Removing Explosives from Wastewater,
W77-08266 1017 5D

Investigation of the Effectiveness of Polymers in the Treatment of Nirocellulose-Manufacturing Wastewater,
W77-08338 1017 5D

Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

Polymerization of Concrete Fights Cavitation,
W77-09044 1018 8F

Evaluation of Cellulose Acetate Membranes for Reverse Osmosis Separation,
W77-09863 1020 5D

Polymer Addition Improves Waste Water Treatment Process,
W77-09878 1020 5D

Polymers are Precisely Managed,
W77-10620 1021 5D

Direct Filtration,
W77-10651 1021 5D

Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

Planning, Executing and Profiting from Polymer Trials,
W77-12425 1024 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

Time Scale and Molecular Weight Distribution Contributions to Dilute Polymer Solution Fluid Mechanics,
W77-12564 1024 8B

POLYNOMIAL PROCEDURE
An Approximating Polynomial for the Computation of Saturation Vapor Pressure,
W77-06652 1014 2B

POLYNOMIALS
Determination of Instantaneous Unit Hydrographs By Least Squares Polynomials,
W77-12086 1023 2E

POLYNUCLEAR AROMATIC HYDROCARBONS
The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

POLYPEDILUM-CONVICTUM
Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

POLYPHENOLS
Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

POLYPHOSPHATES
Reaction Products of Polyphosphates and Orthophosphates with Soils and Influence on Uptake of Phosphorus by Plants,
W77-03636 1008 3F

Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

POLYSACCHARIDE BIODEGRADATION
Bacterial Decomposition of Different Polysaccharides in a Eutrophic Lake,
W77-07991 1016 5C

POLYSACCHARIDES
Accumulation of Reserve Polysaccharide in Activated Sludges Treating Carbohydrate Wastes,
W77-06214 1013 5D

POLYSORB PROCESS
Process Could Save Millions of Pounds on Sewage Treatment Plants,
W77-07904 1016 5D

POLYURETHANE FOAM
Polyurethane Foam--A Useful New Borehole Grout,
W77-05150 1011 2G

POLYVINYL CHLORIDE
Effect of Polyvinyl Chloride on Water Microflora, (In Russian),
W77-02386 1005 5C

POLYVINYLALCOHOL MEMBRANES
Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

POLYVINYLCHLORIDE
Thin-Layer Chromatographic Determination of Cadmium in Water and Biological Media, (In Russian),
W77-12970 1024 5A

POLYVINYLCHLORIDE PIPE
Prediction of Vinyl Chloride Monomer Migration from Rigid PVC Pipe,
W77-04720 1010 5B

POLYVINYLCHLORIDES
Hygienic Standardization of Octylic Stabilizers of Polyvinylchloride in Water Bodies, (In Russian),
W77-02264 1005 5G

POND SNAILS
The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

PONDAGE DRAWDOWN METHOD
The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

PONDED SOILS
Radial Movement of Saturated Zone Under Constant Flux: Theory and Application to the Determination of Soil-Water Diffusivity,
W77-04249 1009 2G

PONDEROSA PINE
Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

PONDING
Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

Payne v Whiting (Upper Riparian Owner Responsible for Surface Runoff Damages).
W77-09570 1019 6E

Processing of Industrial Waste for Solar Evaporation,
W77-10337 1021 5D

A Study of Salt Leaching by Ponding and Sprinkling in Unsaturated Soil Columns,
W77-11444 1022 3C

Optimal Prediction of Ponding,
W77-11798 1023 2G

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

PONDS
Decrease of Bacterial Content in Different Types of Stabilization Ponds,
W77-00080 1001 5D

A Simple Tube-Type Water Profile Sampler,
W77-04717 1010 5A

Ecological Significance of Water Turbidity Exemplified by Ponds of the North Caucasus, (In Russian),
W77-04861 1010 5B

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Experiment with a Multipoint System for Judging Carp Fattening Ponds, (In Russian),
W77-06798 1014 2H

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Effect of Ponds and Small Reservoirs on River Runoff in the Forest-Steppe and Steppe Zones of the Volga Basin,
W77-08834 1018 4A

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

A Yearly Cycle of Changes in Dynamics of Production of the Chemoautotrophic Bacteria in Bottom Sediments of a Water Body,
W77-11505 1023 5C

Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

Lagoons and Oxidation Ponds, (Literature Review),
W77-11714 1023 5D

Remove Algae and High Costs Together,
W77-11755 1023 5D

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

Effects of Tow Traffic on the Resuspension of Sediments and on Dissolved Oxygen Concentrations in the Illinois and Upper Mississippi Rivers Under Normal Pool Conditions,
W77-12331 1024 5C

PONDWEED
Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

PONTIUS
Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

PONTOGAMMARUS CRASSUS
Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

Ecology of the Amphipod Pontogammarus Crassus (G. O. Sars) in the Kiev Reservoir, (In Russian),
W77-12930 1024 2H

PONTOGAMMARUS MAEOTICUS
Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

PONTOPOREIA
Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

POOL-RAPID RIVERS
Patterns of Scour and Fill in Pool-Rapid Rivers,
W77-00837 1002 2J

POOLS
Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

POP-EYE
First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

POP-EYE DISEASE
The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

POPLARS
The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

POPULATION
An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

Oligochaeta of the Deniester River Mouth Region, (In Russian),
W77-10065 1020 2L

New Growth Centers--A Role for the Bureau of Reclamation,
W77-11775 1023 6B

POPULATION DENSITY
Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

POPULATION DYNAMICS
Power Plants and Plankton,
W77-12039 1023 5C

POPULATION PROFILES (HUMAN)
A Population Profile of the Lower Sheyenne River Basin in North Dakota,
W77-12272 1024 6B

POPULATION PROJECTIONS
Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

POPULATION (STATISTICS)
New Growth Centers--A Role for the Bureau of Reclamation,
W77-11775 1023 6B

POPULATIONS
Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

PORE GEOMETRY
Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

PORE PRESSURE
Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Effect of Pore Water Pressure on Sand Splash,
W77-05354 1011 2J

Generalized Dependence of Moisture Pressure and Conductivity on Moisture Content in Uniform Mechanical Soil Fractions, (In Russian),
W77-06369 1013 2G

Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

Estimating the Effective Capillary Pressure in the Green and Ampt Infiltration Equation,
W77-11227 1022 2G

PORE-SIZE DISTRIBUTION FUNCTION
Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

PORE SPACE (SOILS)
Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

PORE-VELOCITY DISTRIBUTION
Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

PORE WATER
Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay,
W77-03556 1007 5B

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Effect of Pore Water Pressure on Sand Splash,
W77-05354 1011 2J

Effects of Sample Handling on the Composition of Marine Sedimentary Pore Water,
W77-07742 1016 5A

A DSC (Differential Scanning Calorimetry) Study of Heat Capacity of Vicinal Water in Porous Materials,
W77-09734 1020 1B

Apparatus for Collecting Deep-Sea Sediment Pore Water,
W77-10881 1022 7B

PORE WATER EXTRACTION
A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

PORE WATER PRESSURE
Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

Effect of Pore Water Pressure on Sand Splash,
W77-05354 1011 2J

PORES
Reverse Osmosis for the Treatment of Metal Waste Solutions,
W77-03610 1008 5D

Salt Sieving Within Clay Soil Aggregates,
W77-12278 1024 2G

PORIFERA
Preliminary Analysis on the Distribution of Porifera in Areas Exposed to Different Types of Pollution, (In Italian),
W77-12976 1024 5B

POROMETER RESISTANCE
Leaf Diffusion Resistance to Water Vapour and its Direct Measurement,
W77-01378 1003 2D

POROSITY
Pore Volume Distribution and Curve of Water Content Versus Suction of Porous Body: 2. The Boundary Wetting Curve,
W77-00162 1001 2G

Effect of Porosity on the Hydrostatic Compression of Ice,
W77-00355 1001 2C

Hydrogeophysical Equivalence of Water Salinity, Porosity and Matrix Conduction in Arenaceous Aquifers,
W77-00652 1002 2F

Reduction of Porosity by Pressure Solution: Experimental Verification,
W77-01332 1003 2F

Detection of Subsurface Solution Cavities in Florida Using Electrical Resistivity Measurements,
W77-02517 1005 2F

Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Using Unconformities to Locate Wells,
W77-04133 1009 8E

Infiltration of Water on a Cattle Feedlot,
W77-04626 1010 5B

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

Flow of Water in Unsaturated Uniform and Layered Porous Materials,
W77-06235 1013 2G

Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

Open-Hole Porosity Logs Can Be Used in Cased Holes,
W77-07698 1016 8G

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

Drainable Porosity Evaluation and its Relationship to Hydraulic Conductivity and Exchangeable Cations Under Different Bulk Densities,
W77-08461 1017 4A

Longitudinal Dispersion in Porous Media with Variable Porosity,
W77-10659 1021 2F

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

A Discriminant Function for Ground Water Exploration,
W77-12003 1023 2F

POROUS MEDIA
Physical Fundamentals of the Mixing of Solutions of Pollutants and Sewage in Porous Media,
W77-00554 1002 5B

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

On the Species Transport Equation for Flow in Porous Media,
W77-02452 1005 2F

Transport of Mass and Energy in Porous Media Due to Natural Convection--The Geothermal Basin Problem,
W77-02507 1005 4B

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-04396 1009 2G

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

Flow of Water in Unsaturated Uniform and Layered Porous Materials,
W77-06235 1013 2G

Analysis of Flow Against Dispersion in Porous Media,
W77-07150 1015 2F

Location of Free Surface in Porous Media,
W77-07162 1015 2F

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

Hydrodynamic Dispersion in Porous Materials,
W77-10131 1021 2G

Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

Longitudinal Dispersion in Porous Media with Variable Porosity,
W77-10659 1021 2F

Statistical Applications in Groundwater Systems,
W77-10789 1021 2F

Mass Transfer Studies in Sorbing Porous Media I. Analytical Solutions,
W77-10801 1022 2G

Material Transport Through Porous Media: A Finite-Element Galerkin Model,
W77-10981 1022 2F

Flow in Fractured Porous Media,
W77-11213 1022 2F

Numerical Model for Saturated-Unsaturated Flow in Deformable Porous Media, 1. Theory,
W77-11223 1022 2F

Experimental Studies of Wetting Front Instability Induced by Gradual Change of Pressure Gradient and by Heterogeneous Porous Media,
W77-11233 1022 2G

Percolation Theory of Residual Phases in Porous Media,
W77-11822 1023 2G

Mass Transfer Studies in Sorbin Porous Media: II. Experimental Evaluation with Tritium (3H20),
W77-11983 1023 2G

Mass Transfer Studies in Sorbing Porous Media: III. Experimental Evaluation with 2,4,5-T,
W77-11984 1023 2G

Binary Gas Diffusion of Methane-Nitrogen Through Porous Solids,
W77-12323 1024 2F

An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

Hydrodynamic Dispersion in Unsaturated Porous Media: II. The Stagnant Zone Concept and the Dispersion Co-Efficient,
W77-12863 1024 2G

POROUS PIPES
Underground Irrigation Porous Pipe,
W77-09810 1020 3F

PORPHYRA
Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

PORT AUTHORITIES
Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

PORT ELIZABETH (SOUTH AFRICA)
Fish Water Flats Reclamation Works.
W77-10222 1021 5D

PORT OF TAGONOURA (JAPAN)
The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

PORT SAID
Effect of the Nile Flood on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-06907 1014 2L

PORT TOWNSEND (WASH)
Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

PORT VALDEZ (ALAS)
The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

PORT VALDEZ (ALASKA)
Uptake and Release of Petroleum by Intertidal Sediments at Port Valdez, Alaska,
W77-10123 1021 5B

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

PORT WASHINGTON HARBOR (WISC)
Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

PORTER ARROYO (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

PORTER-COLOGNE WATER QUALITY CONTROL ACT
Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

PORTLAND (ME)
Maine Sewer Bid 39% Below Estimate.
W77-00071 1001 5D

PORTLAND (ORE)
Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

PORTS
Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

PORTUGAL
Hydrogeology of the Quaternary and Tertiary Formations Along the South Coast of the Algarve Portugal,
W77-01136 1003 2F

Parrot's-Feather (Myriophyllum Aquaticum (Vell.) Verdc.), an Aggressive Water Weed in Portugal, (In Portuguese),
W77-02247 1005 5G

PORTUGAL (LEIXOES)
Spill in Portugal, A Report of the Jakob Maersk Incident,
W77-02752 1006 5G

POSITIVE DISPLACEMENT AIR BLOWERS
Air Blowers for Sewage and Water Treatment.
W77-11697 1023 5F

POST-IMPOUNDMENT
Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Biological Investigations of Tuttle Creek Reservoir, Kansas,
W77-01794 1004 5C

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

POST-IMPOUNDMENTS

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

POST POND (NH)

Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

POTABLE WATER

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Let's Consider Land Treatment, Not Land Disposal,
W77-00614 1002 5D

Regulations: Reactions and Resolution,
W77-00615 1002 5G

Portable Water Sterilization Device,
W77-00688 1002 5F

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

Sanitary and Hygienic Evaluation of the Quality of Underground Drinking Water, (In Russian),
W77-01023 1002 5B

Reserve Mining Co V City of Duluth (Filtration of Lake Superior by Corps of Engineers).
W77-01043 1002 6E

A New Method for the Determination of Nitrates in Drinking Water,
W77-01278 1003 5A

Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

Method of Evaluating the Content of Natural Radioactive Isotopes of the Uranium and Thorium Series in Drinking Water and Food, (In Russian),
W77-02070 1004 5C

Need for Fluoridation of Drinking Water in Krasnodon, (In Russian),
W77-02338 1005 5F

Experimental, Clinical and Physiological Data for Substantiating the Lower Limits of the Mineralization of Desalinated Drinking Water, (In Russian),
W77-02895 1006 5C

Selection of Strains in Investigations for Hygienic Standardization of the Bacterial Composition of Drinking Water, (In Russian),
W77-02900 1006 5C

Drinking Water Supply in Krasnovodsk, (In Russian),
W77-02902 1006 3A

Physiological Assessment of Calcium Content in Distilled Drinking Water, (In Russian),
W77-02909 1006 5F

Study of the Effect of Desalted Drinking Water on the Health of the Population, (In Russian),
W77-03037 1006 5F

Fluorine in Drinking Water of Eastern Slovakia, (In Russian),
W77-03056 1006 5A

Determination of Arsenic in Drinking Water by Means of Silver Diethyldithiocarbamate, (In Russian),
W77-03113 1007 5A

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress.
W77-03360 1007 5A

A Preliminary Study of the Taste and Odor Problems in Grand Lake, Ohio and the Wabash Rivers, Indiana,
W77-03384 1007 5C

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Identification of 1,1,1-Trichloroacetone (1,1,1-Trichloropropanone) in Two Drinking Waters: A Known Precursor in Haloform Reaction,
W77-03794 1008 5A

Standard 'Potable Water' (All-Union State Standard 2874-73, A New Stage in the Development of Water Hygiene, (In Russian),
W77-03853 1008 5G

Experimental and Field Studies in Hygienic Assessment of Drinking Water Containing Boron, (In Russian),
W77-04033 1008 5G

Studies on the Recurrence of Bacterial Flora in Drinking Water After Ozonization, (In German),
W77-04074 1008 5F

Thyroid Modifications in Rats after Administration of Mineral Residue from Drinking Water, (In French),
W77-04089 1008 5C

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Examination of the Fluoride Concentration in Drinking Water of the Town of Titograd, (In Serbo-Croatian),
W77-04334 1009 5A

Mobile Method of Determining Fluorides in Drinking Water, (In Russian),
W77-04337 1009 5A

Biological Action of Nitrates in Drinking Water, (In Russian),
W77-04560 1009 5A

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Water Quality Information Storage and Retrieval System for Hawaii, Phase III: Final Report, (November 1973-September 1974),
W77-05673 1012 5A

Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

Data for Substantiating the Permissible Level of Boron Content in Drinking Water, (In Russian),
W77-05898 1012 5C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Asbestos in Potable Water,
W77-06016 1012 5A

Water Quality Criteria for Great Lakes Waters to be Used as Municipal and Industrial Water Supplies,
W77-06230 1013 5G

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

Inorganic Contaminants in Rural Drinking Waters,
W77-07372 1015 5A

The Changes in Inorganic Nitrogen Concentration of Drinking Water from Wells Over a Two Year Period in Ani-Machi, Ibaraki Prefecture, (In Japanese),
W77-07570 1015 5B

Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Study of Free Living Amoebae in the Waters of Strabourg: Preliminary Report, (In French),
W77-08016 1016 5A

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

Interim Primary Drinking Water Regulations: Promulgation of Regulations on Radionuclides.
W77-08985 1018 5G

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

Nebraska Issues Regulations Under Safe Drinking Water Act of 1976.
W77-10523 1021 5G

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation,
W77-10540 1021 3C

A Hygienic Evaluation of Boron in Potable Waters, (In Russian),
W77-10582 1021 5C

Contamination of Drinking Water by Corrosion of Copper Tubes,
W77-10735 1021 5B

Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

Solar Distillation in India,
W77-11087 1022 3A

Health Aspects of Potable Water Supplies,
W77-11573 1023 5F

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

Biological Control of Water Pollution.
W77-11690 1023 5G

The Use of Polluted Sources for Water Supply,
W77-11858 1023 5F

Evaluation of Potable Water as a Vehicle of Transmissibility and Viability for Herpesvirus,
W77-11935 1023 5B

A Test of Alternatives for Meeting Public Potable Water Requirements,
W77-12159 1023 5G

Tastes and Odors in Water Supplies-A Review,
W77-12794 1024 5F

POTAGE RIVER (OHIO)

The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

POTAMOGETON-PECTINATUS

Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

POTAMOGETON PERFOLIATUS

Potamogeton Perfoliatus in a Brackish-Water Estuary at Ora, Fredrikstad (S. Norway), (In Norwegian),
W77-00508 1001 5C

POTAMON-DEHAANI

Studies on the Incidence of Encysted Larvae of Paragonimus Mivazakii Kamo Et Al, 1961 in the Crab Potamon Dehaani in Shizuoka Prefecture, Japan, (In Japanese),
W77-01036 1002 5C

POTAMOTHRIX-HAMMONIENSIS

Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

POTASH

Release of Soil Potassium on Wetting and Drying,
W77-11982 1023 2G

POTASSIUM

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

Dissolution of Illite--A Possible Mechanism of Potassium Release,
W77-02283 1005 2G

Nutrient Dilution-Antagonism Effects in Corn and Snap Beans in Relation to Rate and Source of Applied Potassium,
W77-02288 1005 3F

Potassium in an Arid Loessial Soil: Characterization by Equilibrium Release-Absorption to Strong Salt Solutions,
W77-02296 1005 2G

Modeling Reactions and Transport of Potassium in Soils,
W77-02529 1005 5B

Effects of Potassium on Adult Asiatic Clams, Corbicula Manilensis,
W77-03119 1007 5C

Soil Potassium Relationships as Indicated by Solution Equilibrations and Plant Uptake,
W77-03395 1007 2G

Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

Potassium in an Arid Loessial Soil: Changes in Availability as Related to Cropping and Fertilization,
W77-06870 1014 3F

Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

In Vitro Effect of Organic Nitrogen and Potassium Additions on Nitrogen Mineralization and on Exchanges Between the Mud and Water of a Pond, (In French),
W77-07575 1015 5B

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

Influence of Crop Management Practices on Nutrient Movement Below the Root Zone in Nebraska Soils,
W77-09279 1019 2G

Potassium Status of Some Alluvial Soils in Kentucky,
W77-09290 1019 2G

Heterovalent Cation Exchange Equilibria in Soils With Variable and Heterogeneous Charge,
W77-09440 1019 2G

Sulfur-Coated Fertilizers for Sugarcane: II. Release Characteristics of Sulfur-Coated Urea and KCl,
W77-09641 1020 3F

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

Release of Cadmium from Clays and Plant Uptake of Cadmium from Soil as Affected by Potassium and Calcium Amendments,
W77-09962 1020 2G

Nitrogen, Phosphorus, and Potassium Utilization in the Plant-Soil System: An Analytical Model,
W77-09964 1020 2I

Potassium Sources and Availability on a Deep, Sandy Soil of East Texas,
W77-09972 1020 2G

Potassium Release from Sand, Silt, and Clay Soil Separates,
W77-10277 1021 2G

Long-Term Residual Fertility and Current N-P-K Application Effects on Soybeans,
W77-11945 1023 3F

Release of Soil Potassium on Wetting and Drying,
W77-11982 1023 2G

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

Response of Soybean Varieties to Potassium under Rainfed Conditions,
W77-12294 1024 3F

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

POTASSIUM-CALCIUM EXCHANGE EQUILIBRIA
Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

POTASSIUM COMPOUNDS
Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

POTASSIUM PERMANGANATE
Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

POTATO CHIP PROCESSING WASTES RECOVERY
Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

POTATO PROCESSING WASTES
State-of-the-Art Review of Processes for Treatment and Reuse of Potato Wastes,
W77-06949 1014 5D

POTATO PROCESSORS OF IDAHO
American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

POTATO WASTES
Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

POTATOES
Drying Potato Wastes for Animal Feed as an Alternative Disposal Method.
W77-06947 1014 5D

Determination of Pyridine in Farm Crops and Fish, (In Russian),
W77-08126 1017 5A

Anatomical Response of Potato Stems and Roots to Soil Moisture and Rates of Fertilizer,
W77-11398 1022 3F

Non-Uniform Infiltration Under Potato Canopies Caused by Interception, Stemflow, and Hilling,
W77-11952 1023 3F

Relationship Between Potato Yield and Oxygen Diffusion Rate of Subsoil,
W77-11963 1023 3F

Anaerobic and Aerobic Treatment of Combined Potato Processing and Municipal Wastes,
W77-12079 1023 5D

Nutrient Uptake by Russet Burbank Potatoes as Influenced by Fertilization,
W77-12128 1023 3F

Evaluation of Sulfur-Coated Urea (SCU) Applied to Irrigated Potatoes and Corn,
W77-12132 1023 3F

High-Frequency Trickle Irrigation and Row Spacing Effects on Yield and Quality of Potatoes,
W77-12533 1024 3F

POTENTIAL EVAPORATION
The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Substantiation of the Priestley and Taylor Parameter Alpha = 1.26 for Potential Evaporation in High Latitudes,
W77-11599 1023 2D

POTENTIAL EVAPOTRANSPIRATION
The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

Computation of the Potential Evapotranspiration and Their Comparison with Values of the Actual Evapotranspiration of Lysimeters, (In German),
W77-03118 1007 2D

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

Evaporation and Evapotranspiration in Nigeria,
W77-09299 1019 2D

Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

POTENTIAL FLOW
Hydrodynamic Forces on Multiple Circular Cylinders,
W77-03081 1007 8B

Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

Dupuit-Forchheimer and Potential Theories for Recharge from Basins,
W77-06004 1012 2F

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

Transform Approach to Solution of Groundwater Flow Equations,
W77-09318 1019 2F

Application of Dynamic Programming to Model Tri-Dimensional Flow in Porous Media (Application de la Programation Dynamique aux Modeles Tridemensionnels de Calcul des Ecoulements dans les Milieux Poreux),
W77-10429 1021 2F

POTENTIAL TOXICITY
Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

POTENTIAL WATER SUPPLY
Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

Prospects for an Agro-Industrial Complex on the Gaza-Sinai Sea Coast,
W77-02115 1005 3A

The Feasibility of a Water Importation Project for South Florida,
W77-07259 1015 6E

The Use of Polluted Sources for Water Supply,
W77-11858 1023 5F

POTENTIOMETERS
Simultaneous Determination of Total, Non-Carbonate and Carbonate Water Hardness by Direct Potentiometry,
W77-03780 1008 5A

An Assessment of Various Types of Reference Electrode for use in Continuous Potentiometric Analysis with Particular Application to Highly Pure Waters,
W77-05678 1012 2K

POTENTIOMETRIC LEVEL
Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

Potentiometric Surface of the Floridan Aquifer in the Suwannee River Water Management District, North Florida, May 1976,
W77-11878 1023 7C

POTENTIOMETRY
Potentionmetric Determination of Microamounts of Sulfur Compounds in Kraft Mill Effluents (Potentsiometricheskoe opredelenie mikrokolichestv sernistykh soedinenii v stochnykh vodakh sul'fattsellyuloznogo proizvodstva),
W77-12354 1024 5A

POTOMAC-RARITAN-MAGOTHY AQUIFER SYSTEM
Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

POTOMAC RIVER
Water Quality Analysis, The Potomac River.
W77-01968 1004 5G

A Mixed-Dimension Kinematic Estuarine Model,
W77-02131 1005 2L

The Circulation and Salinity Distribution of the Upper Potomac Estuary,
W77-02132 1005 2L

Potomac River (Hearings on the State of the Potomac River as to Water Supply and Water Pollution).
W77-11449 1022 6E

POTOMAC RIVER ESTUARY
Numerical Model of Estuarine Circulation,
W77-06519 1013 5B

POULTRY
Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

POULTRY

Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

Meat and Poultry Products Plant Liquid Effluent Regulations and Guidelines.
W77-12774 1024 5G

POULTRY PROCESSING WASTES

Characteristics of Poultry Processing Effluent,
W77-11531 1023 5B

POULTRY PRODUCTS PLANTS

Meat and Poultry Products Plant Liquid Effluent Regulations and Guidelines.
W77-12774 1024 5G

POULTRY WASTES

An Overland Flow - Lagoon Recycle System as a Pretreatment of Poultry Wastes,
W77-09148 1019 5D

POWDER DRAINAGE BASIN (OR)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

POWDERED ACTIVATED CARBON

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

What Lies Ahead for PAC,
W77-08541 1017 5D

POWER FAILURE

Auxiliary Air System for Use in Laboratory Experiments,
W77-08800 1018 7B

POWER OPERATIONS AND MAINTENANCE

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

POWER PARKS

The Power Park Concept: Ameliorating Man's Disorder with Nature's Order,
W77-05542 1011 5C

POWER PEAKING

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

POWER PLANTS

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

Gas Bubble Disease, Proceedings of a Workshop Held at Richland, Washington, Oct. 8-9, 1974.
W77-04413 1009 5C

The Use and Re-Use of Sewage Effluent,
W77-06116 1013 5D

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

An Energy Accounting Evaluation of Several Alternatives for Hydropower and Geothermal Development,
W77-09057 1018 6B

POWER SYSTEM OPERATION

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

POWER TRANSFORMERS

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

POWERPLANTS

Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Panel 'D' - Power Plant and Industrial Emissions and Effluents,
W77-02055 1004 6G

Control of Ambient SO2 Concentrations by Noncontinuous Emission Limitation Large Coal-Fired Power Plants,
W77-02059 1004 6G

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

The Toxicity of Selected Chemicals Used in Power Generating Stations to Hawaiian Fishes,
W77-02666 1006 5C

Scanning Thermal Plumes,
W77-02682 1006 5A

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-02820 1006 5C

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

Preoperational and Operational Hydrothermal Field Data Acquisition and Analysis,
W77-03837 1008 5B

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Potential Power-Generating Stations on the Atlantic Continental Shelf,
W77-04935 1010 6G

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

Thermal Effluent in Coastal Rivers: A Contribution to the Location of Power Plants,
W77-05587 1011 5C

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

Optimization Model of a System of Two Open-Channel Hydroplants,
W77-06716 1014 4A

An Annular Flow Ice-Water Model Heat Sink,
W77-06889 1014 2C

Pumped Storage Optimization in Generation Systems,
W77-07525 1015 4A

Power Plant Site Evaluation: The Case of the Sharon Plant in Israel,
W77-07546 1015 6G

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

Siting of Major Energy Facilities.
W77-09459 1019 6G

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Power Plants and Plankton,
W77-12039 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

Physical Model of Marine Phytoplankton Chlorination at Coastal Power Plants,
W77-12645 1024 5B

POYELECTROLYTES

Polyelectrolytes Filter Bed Coatings (Impregnacja zloz filtracyjnych polielektrolitami),
W77-06192 1013 5D

POZZOLANS

Performance of Lignite and Subbituminous Fly Ash in Concrete - A Progress Report,
W77-02803 1006 8F

PRAIRIE GROVE LAKE (ARK)
Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

PRAIRIE LAKES
Effects of Zooplankton Grazing on Nuisance Algal Blooms,
W77-06398 1013 5C

PRAIRIE LAKES (SD)
Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

PRANDTL NUMBERS
Turbulent Transport to a Rotation Cylinder for Large Prandtl or Schmidt Numbers,
W77-02534 1005 3A

PRAWNS
Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

PRE-COAL-DEVELOPMENT STUDIES (COLO)
Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

PRE-EMERGENTS
Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

PRE-IMPOUNDMENT
Damming the Crocodile.
W77-01472 1003 6D

Pre-Impoundment Biological Survey of Stockton Reservoir-Sac River, Missouri, August 1968,
W77-01793 1004 5C

Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Cabora Bassa Fish Populations Before and During the First Filling Phase,
W77-10380 1021 2H

PRE-TREATMENT (WASTE WATER)
New Pre-Treatment Method Without Chemical Reagents for Organic Wastes of Wine Distilleries (Nouveau procede de pre-traitement rejets des d'origine organique destine aux distilleries ou autres sans apport d'adjuvants),
W77-05503 1011 5D

PRE-TREATMENT (WATER)
PL 92-500: Phoenix V. the EPA,
W77-08128 1017 5G

Pre-Treatment in the Sewer,
W77-08596 1017 5D

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

PRECIPITATION (ATMOSPHERIC)
Medium Term Fluctuations of Rainfall in Southeastern England,
W77-00092 1001 2B

Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Ice-Bearing Cumulus Cloud Evolution: Numerical Simulation and General Comparison Against Observations,
W77-00648 1002 2B

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

The Resultant Direction and Inclination of Rainfall at Taita Experimental Station, New Zealand,
W77-01133 1003 2B

The Resultant Direction and Inclination of Rainfall at Arahura, Wairarapa, New Zealand,
W77-01134 1003 2B

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

An Evaluation of Precipitation pH Data from the Washington, DC Area Collected During 1975,
W77-01703 1004 2B

Low Level Snow Precipitation Gauge,
W77-01744 1004 2C

The Operational Use of Digital Radar Data for Flash Flood Monitoring,
W77-01941 1004 7B

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Inadvertent Weather Modification,
W77-02453 1005 3B

Climatic Inferences from Former Glaciers in the South-East Grampian Highlands, Scotland,
W77-02467 1005 2C

The Annual Volume of U.S. Precipitation and its Variations for the Period 1931-1971,
W77-02483 1005 2B

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

Acid Precipitation,
W77-02800 1006 2B

Rainfall in the Seychelles 1941 to 1970,
W77-03096 1007 2B

Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

Precipitation Chemistry Studies at Lake George: Acid Rains,
W77-03098 1007 5A

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

Artificial Modification of Atmospheric Processes,
W77-03303 1007 3B

Precipitation on the Aral Sea Surface, (In Russian),
W77-03592 1007 2B

Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

The Two-Axis Method: A New Method to Calculate Average Precipitation Over A Basin,
W77-03755 1008 2B

A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

GATE Convection Subprogram Data Center: Shipboard Precipitation Data,
W77-04196 1009 2B

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Estimation of Areal Average Precipitation Using Different Network Densities and Averaging Techniques,
W77-05109 1011 2B

Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

The Measurement of 1 Min Rain Rates from Weighing Raingage Recordings,
W77-05438 1011 2B

Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

Degree of Precipitation Irregularity as an Indication of Landscape Zonality,
W77-06307 1013 2B

Annual Amount of Precipitation in the USSR, According to Corrected Data,
W77-06508 1013 2B

The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

Physical Problems of Weather Modification,
W77-07357 1015 3B

Predictability of Effects of a Severe Local Storm in Pennsylvania,
W77-07369 1015 2B

Final Report on The Pyramid Lake Pilot Project, 1970-1975, Volume 1, Text of Report,
W77-07566 1015 3B

Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

Atmospheric Sulfate Additions and Cation Leaching in a Douglas Fir Ecosystem,
W77-08822 1018 2K

Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

Theoretical Probability Distribution of Critical Hydrologic Events by the Partial-Duration Series Method,
W77-09109 1019 2B

Precipitable Water Vapor in Atmospheres Characterized by Temperature Inversions,
W77-09330 1019 2B

On the Causes of Local Climatic Anomalies, With Special Reference to Precipitation in Washington State,
W77-09355 1019 2B

Precipitation Trend and Storm Analysis in Colorado.
W77-09685 1020 2C

Deduction of Ice Particle Types in the Vicinity of the Melting Layer from Doppler Radar Measurements,
W77-09720 1020 2B

Rainfall Trends in 80 Rainfall Districts of South Africa,
W77-10085 1020 2B

On the Application of Trend Surfaces of Precipitation to Mountainous Areas,
W77-10088 1020 2B

Seasonal Oceanic Precipitation Frequencies from Nimbus 5 Microwave Data,
W77-10105 1021 2B

Persistence, Runs and Recurrence of Precipitation,
W77-10110 1021 2B

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

A Hydrometeorological Research Program,
W77-10658 1021 2B

Study of a Heavy Precipitation Occurrence in Redding, California,
W77-11050 1022 2B

NOAA-ARS Cooperative Snow Research Project. Watershed Hydro-Climatology and Data for Water Years 1960-1974,
W77-11662 1023 2C

Investigations on Precipitation from Various Locations in Norway 1965-71,
W77-11785 1023 2B

Precipitation as a Chain-Dependent Process,
W77-11803 1023 2B

Collating Airborne and Surface Observations of the Microstructure of Precipitating Continental Convective Clouds,
W77-11804 1023 2B

Precipitation Nutrients in the Open and Under Two Forests in Minnesota,
W77-11831 1023 2K

Convective Storm Field Simulation for Distributed Catchment Models,
W77-12092 1023 2B

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

Markov-Dependent Geometric Models for Weather Spells and Weather Cycles-A Study,
W77-12554 1024 2B

Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

Precipitation Mapping with an Airborne Synthetic Aperture Imaging Radar,
W77-12804 1024 2B

Proceedings of a Conference on Emerging Environmental Problems: Acid Precipitation.
W77-12809 1024 5A

Acid Precipitation: A World Concern,
W77-12810 1024 5A

Acid Precipitation: Our Understanding of the Phenomenon,
W77-12811 1024 5A

Acid Precipitation: Our Understanding of the Ecological Effects,
W77-12812 1024 5A

A Long-Term (1860-1970) Change in the Regime of Barometric Pressure at Jerusalem and Its Relation to Rainfall,
W77-12827 1024 2B

PRECIPITATION EXCESS

A Record Arkansas Rainfall - The El Dorado Deluge,
W77-00897 1002 2B

Design Flood Synthesis by Excess Rain Routing,
W77-01452 1003 2A

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

On the Derivation of Linkage Equations for Laguerre Function Coefficients,
W77-05794 1012 2B

Sensitivity of Some Runoff Models to Errors in Rainfall Excess,
W77-09339 1019 2A

PRECIPITATION GAGE DENSITY

An Evaluation of Precipitation Gage Density in a Mountainous Terrain,
W77-10800 1021 2B

PRECIPITATION GAGES

The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

An Evaluation of Precipitation Gage Density in a Mountainous Terrain,
W77-10800 1021 2B

PRECIPITATION INTENSITY

Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

PRECIPITATION IRREGULARITY

Degree of Precipitation Irregularity as an Indication of Landscape Zonality,
W77-06307 1013 2B

PRECIPITATION VARIATIONS

The Annual Volume of U.S. Precipitation and its Variations for the Period 1931-1971,
W77-02483 1005 2B

PRECISION OF ANALYSIS

Asbestos in Potable Water,
W77-06016 1012 5A

PREDATION

Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

Causes of a Greater Effect of Predators on Non-Predatory Fish Populations in Low Latitudes, (In Russian),
W77-00521 1001 2I

Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

A Predator-Prey Model for Discrete-Time Commercial Fisheries,
W77-01171 1003 6A

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

Further Studies of Cold-Shock Effects on Susceptibility of Young Channel Catfish to Predation,
W77-05564 1011 5C

Laboratory Studies of Predation by Euphausiid Shrimps on Fish Larvae,
W77-05846 1012 2L

Changing Lobster Abundance and the Destruction of Kelp Beds by Sea Urchins,
W77-05902 1012 5C

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

PREDICTION MODELS

Verification by Remote Sensing of an Oil Slick Movement Prediction Model,
W77-07745 1016 5B

PREDICTIVE EQUATIONS

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

PREFERENCE

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

PREFERENCE MODELS

Preference Models of Environmental Impact,
W77-04020 1008 6G

PREFERENCES (WATER RIGHTS)

Public Lands (Preference Rights Established for Acquisition of Tidelands and Submerged Lands).
W77-01106 1003 6E

Preference Models of Environmental Impact,
W77-04020 1008 6G

Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

Acquisition of Water Rights.
W77-05070 1010 6E

A New Measure of Damage for Wrongfully Appropriated Water,
W77-08361 1017 4A

Water for Food - Or for More Important Purposes. (Reallocation of Irrigation Water to Cities and Industries),
W77-08377 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

Appropriation of Water.
W77-08405 1017 6E

Benson V Burgess (Superior and Subordinate Rights to Irrigation Water).
W77-10476 1021 6E

Water Rights (Constitutional Provisions).
W77-11195 1022 6E

PREFERENDUM

Compilation of Temperature Preference Data,
W77-08767 1018 7C

PREFERRED TEMPERATURE

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

PREFERRED TEMPERATURE (FISH)

Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

PREFERRED TEMPERATURE (TROUT)

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

PREFERRED TEMPERATURES

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

PREHISTORIC FARMING SYSTEMS ECOTONE

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

PRELIMINARY SCREENING

Surface-Water Quantity Management Models,
W77-05013 1010 4A

PREMATURE MIGRATION

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

PRESCRIBED BURNING

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

Nutrients Lost in Debris and Runoff Water From a Burned Chaparral Watershed,
W77-00810 1002 4C

Soil Movement in Established Gullies After a Single Prescribed Burn in the South Carolina Piedmont,
W77-05118 1011 4C

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

PRESCRIPTIVE RIGHTS

Water Rights Registration.
W77-01109 1003 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

A Postscript to the Mutual Prescription Doctrine--City of Los Angeles V City of San Fernando,
W77-08490 1017 6E

Mc Ilray V Hamilton (Permissive Use of Spring Overflow Defeats Prescriptive Right Claim),
W77-09006 1018 6E

United States V Holmes (Waters and Subaqueous Areas Located Within Perimeters of a Military Post),
W77-09008 1018 6E

Benson V Burgess (Superior and Subordinate Rights to Irrigation Water).
W77-10476 1021 6E

Public Rights in Ocean Beaches: A Theory of Prescription,
W77-11157 1022 6E

PRESERVATION

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Implementing the Coastal Plan: A New Test for the Concept of State Control for Areas of Critical State Concern,
W77-04922 1010 6E

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

Biscayne Bay Symposium II,
W77-08961 1018 5G

PRESQUE ISLE BAY (PA)

Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

PRESQUE ISLE (PA)

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

PRESSURE
The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

Reduction of Porosity by Pressure Solution: Experimental Verification,
W77-01332 1003 2F

Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

Test New Sewers with Low-Pressure Air,
W77-02329 1005 8G

Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Experimental Study of Wetting front Instability Induced by Sudden Change of Pressure Gradient,
W77-05433 1011 2G

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

Oxygenation of Aqueous Wastes: The PROST System,
W77-10608 1021 5D

Studies of Pressure and Energy of Standing Waves,
W77-10964 1022 8B

Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

Surge Arrestor Controls Florida Sewage.
W77-12462 1024 8C

PRESSURE CONDUITS
Pressurized Air Simplifies Conveying Sewage Solids,
W77-06115 1013 5D

PRESSURE DRUM FILTER
The Pressure Drum Filter for Sludge Dewatering.
W77-11698 1023 5D

PRESSURE FLOTATION
Dissolved Air (Pressure) Flotation - An Evaluation of Inter-Relationships Between Process Variables and their Optimisation for Design,
W77-01367 1003 5D

PRESSURE FLUCTUATIONS
Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

PRESSURE GRADIENTS (SOILS)
Infiltration and Redistribution of Water in Soils, (In Dutch),
W77-11471 1022 2G

PRESSURE HEAD
Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

A Method for Computing and Comparing Upward Flow of Water in Soils From a Water Table Using the Flux/Unsaturated Conductivity Ratio,
W77-05533 1011 2G

PRESSURE MEASURING INSTRUMENTS
Waves in Coastal Waters Off Mangalore; Pt. I: Distribution of Wave Characteristics,
W77-01330 1003 2L

PRESSURE REDUCTION
Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

PRESSURE RESPONSES
Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

PRESSURE RIDGES
Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

PRESSURE SEWERS
Demonstrating the Feasibility of Vacuum and Pressure Sewers,
W77-09834 1020 5D

PRESSURE SOLUTION
Reduction of Porosity by Pressure Solution: Experimental Verification,
W77-01332 1003 2F

PRESSURIZED IRRIGATION SYSTEMS
The Economics of Pressurized Irrigation Systems for Mature Citrus Orchards in Southwestern Arizona,
W77-02165 1005 3F

Optimization of Subunit Dimensions for Pressurized Irrigation Systems,
W77-12710 1024 3F

PRESUMPTIONS (LEGAL)
State Dept of Pollution Control V International Paper Co. (Determination of Fish Value That were Killed by Pollutants).
W77-03498 1007 6E

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels),
W77-07280 1015 6E

Crumpton V Department of Water Resources (Water Rights Cancelled as a Result of Nonuse).
W77-10490 1021 6E

PRETREATMENT (INDUSTRIAL WASTES)
Is pH Pretreatment Necessary,
W77-08276 1017 5D

PRETREATMENT STANDARDS (EFFLUENT)
City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

PRETREATMENT STANDARDS (EFFLUENTS)
American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

PREY BEHAVIOR
Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

PRIBILOF ISLANDS
Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

PRIBILOF SOUND
Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

PRICE CURRENT METERS
A Universal Calibration Equation for Price Meters and Similar Instruments,
W77-06943 1014 7B

PRICE PYGMY METERS
Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

PRICES
Implications of Rising Energy Costs for Irrigated Farms in the Oklahoma Panhandle,
W77-05995 1012 3F

PRICING
Weather-Dependent Pricing for Water Resources in the Texas High Plains,
W77-00122 1001 3F

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-03931 1008 5G

Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

Conservational Water Pricing for Increased Water Supply Benefits,
W77-05993 1012 6D

Collective Utility: A Systems Approach to Water Pricing Policy,
W77-06712 1014 6C

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

PRIFILOF ISLANDS
A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

PRIMARY KRAFT MILL EFFLUENT
Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

PRIMARY PRODUCTION
Loch Ewe Bag Experiment, 1974,
W77-06627 1014 5A

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

PRIMARY PRODUCTIVITY

Fort River Ecosystem: Productivity of the Periphyton Component,
W77-00149 1001 5C

Plant Production in Experimental Streams, A Cooperative Research Project with Weyerhaeuser Company,
W77-00735 1002 5C

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

The Effects of Mirex and Methoxychlor on the Growth and Productivity of Chlorella Pyrenoidosa,
W77-01248 1003 5C

Phytoplankton Diversity AHD Chlorophyll-a in a Polluted Estuary,
W77-01499 1003 5C

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Chlorophyll-a And Primary Production in Georgian Bay, North Channel, and Lake Huron, Apr. to Dec. 1974,
W77-01798 1004 5C

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Phytoplankton Production Measurements with Carbon-14 with Consideration of Labeled Organic Matter Losses During Filtration, (In Russian),
W77-02704 1006 5A

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Observations of the Daily Dynamics of Primary Production of Phytoplankton, (In Russian),
W77-02872 1006 5C

Primary Production and Oxygen Budget in a Stream of the Central Pyrenees, (In French),
W77-02916 1006 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

The Primary Production of the Periphyton Association Oedogonio-Epithemietum Litoralae,
W77-03374 1007 5C

The Primary Production of Lake Sibaya, Kwazulu, South Africa,
W77-03376 1007 5C

Phytoplankton Response to Phosphorus and Silica Enrichments in Lake Michigan,
W77-03537 1007 5C

Primary Productivity of the Benthic Microalgae in the Churchi Sea Near Barrow, Alaska,
W77-03782 1008 5C

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

Primary Production of Green Filamentous Algae from the Kiev Reservoir, (In Russian),
W77-04070 1008 5C

Utilization of Energy by Primary Producers in Four Ponds in Northwestern Florida,
W77-04165 1009 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

Uptake and Release of Phosphorous by Phytoplankton in the Chesapeake Bay Estuary, USA,
W77-04332 1009 5C

Primary Organic Production in a Brackish Eutrophic Environment (Etang de Berre): Effects of Strong Dilution (From the Waters of the Durance), (In French),
W77-04587 1009 5C

Phytoplankton Primary Production in the Experimental Lakes Area Using an Incubator Technique--1975 Data,
W77-04868 1010 5C

The Distribution and Relation of Particulate Organic Material and Primary Productivity in the Georgia Bight, 1973-1974,
W77-05232 1011 5C

Relationships of Phytoplankton Biomass with Soluble Nutrients, Primary Production, and Chlorophyll a In Lake Erie, 1970,
W77-05235 1011 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

The Effect of Pollution on Photosynthetic Activity of Algae and Physiological Activity of Bacteria in Lake,
W77-05864 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Primary Production of the Phytoplankton of the Uchinskoye Reservoir, (In Russian),
W77-06332 1013 5C

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

Primary Productivity, Phytoplankton Populations and Nutrient Bioassays in China Lake, Maine, U.S.A.,
W77-06390 1013 5C

Distinctions in Algal Ecology and Production in Two Linked Upland Lakes, Gwynedd, N. Wales,
W77-06394 1013 5C

Primary and Secondary Production of Plankton in Heated Lakes, (In Polish),
W77-06752 1014 5C

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Primary Production and Biomass of Algae Populations in an Oligotrophic Lake in the French Massif Central, (In French),
W77-07398 1015 5C

Spatial and Temporal Changes in the Primary Productivity of Lake Tahoe, California-Nevada Between 1959 and 1971,
W77-07443 1015 5C

Comparison of Primary Productivity (14C) per Unit Biomass Between Phytoplankton and Periphyton in the Ottawa River Near Ottawa, Canada,
W77-07454 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Effect of Nutrient Enrichment on the Heterotrophic Uptake of Organic Solutes by Microorganisms,
W77-07466 1015 5C

A Survey of the Biological Limnology of Lake Titicaca,
W77-07503 1015 5C

Vertical Mixing Mechanisms and Their Effects on Primary Production of Phytoplankton,
W77-07733 1016 5C

Reductions in Biomass and Diversity Resulting from Exposure to Mercury in Artificial Streams,
W77-07838 1016 5C

Effects of Chlorine and Chloramine on Uptake of Inorganic Nitrogen by Phytoplankton,
W77-07843 1016 5C

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)--Vermont (U.S.A.),
W77-07962 1016 5C

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

Characteristics of the Biotic Cycle of Lake Baikal, (In Russian),
W77-08321 1017 2H

The Productivity of Fouling Organism Associations in Lake Zelenetskoe, (In Russian),
W77-08323 1017 5C

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Carbon Dioxide Exchange and Productivity in Lake Erie and Lake Ontario,
W77-09485 1019 5C

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

Segmented Population Model of Primary Productivity,
W77-09512 1019 5C

An Energy Balance for Algal Populations in Light-Limiting Conditions,
W77-09609 1020 5C

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

Plankton Ecology in Long Pond, St. Johns, Newfoundland: A Polluted Pond Characterized by a High Flushing Rate,
W77-09664 1020 5C

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

Primary Production Studies in Porto Novo Waters, S. India,
W77-10140 1021 5C

Limnological Studies in a Large, Deep, Oligotrophic Lake (Lake Ohrid, Yugoslavia). Evaluation of Nutrient Availability and Control of Phytoplankton Production Through In Situ Radiobioassay Procedures,
W77-10141 1021 5C

The Determination of Dissolved Inorganic Carbon, a Possible Source of Error in Determining the Primary Production of Lake Water Phytoplankton,
W77-10153 1021 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

Annual Cycle of Primary Production and Its Relation to the Nutrients in Canary Island Waters, (In Spanish),
W77-10598 1021 5C

Effects of Acidity on the Phytoplankton and Primary Productivity of Selected Northern Ontario Lakes,
W77-10733 1021 5C

Influence of Sediment Inflow in Phytoplankton Primary Productivity in Lake Tahoe (California-Nevada),
W77-10743 1021 5C

Studies of Primary Productivity and Phytoplankton Organisms in the Colville River System,
W77-10900 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Depression of Primary Productivity by Aroclor 1232 in an Interspecific Lentic Algal Assemblage,
W77-11304 1022 5C

Algal Primary Production in the Zone of Submerged Vegetation of a Eutrophic Lake,
W77-11480 1022 5C

A Bottle Holder for In Situ Primary Productivity Studies,
W77-12189 1023 5A

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

Primary Production and Chlorophyll Content in the Baltic Sea: Part II. Chlorophyll-A Distribution,
W77-12591 1024 5C

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

Hydrobiological Research Related to Large Scale Experimental Pollution Studies in the Rance Estuary: Primary Production in Relation to Certain Physicochemical Parameters, (In French),
W77-12975 1024 5C

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

PRIMAY PRODUCTIVITY

Nutrient Limitation in a Small Oligotrophic Lake in New Hampshire,
W77-07974 1016 5C

PRINCE WILLIAM SOUND (ALASKA)

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

PRINCIPAL COMPONENT ANALYSIS

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

PRINCIPLES AND STANDARDS (WATER RESOURCES COUNCIL)

Implementation of Multiple Objective Planning by the Soil Conservation Service,
W77-01155 1003 6B

Philosophy of Multiple Objective Planning in the Bureau of Reclamation,
W77-01156 1003 6B

PRINTING INDUSTRY

Environmental Aspects of Chemical Use in Printing Operations, (September 22-24, 1975, King of Prussia, PA.), Conference Proceedings.
W77-02553 1005 5C

PRINTING PRESSES

Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

PRIOR APPROPRIATION

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

Rights to Water.
W77-03494 1007 6E

The Effects of Streamflow Variation on Production and Income of Irrigated Farms Operating Under the Doctrine of Prior Appropriation,
W77-03637 1008 3F

California Water Law in Perspective,
W77-03689 1008 6E

Water Laws of the United States: The Deficiencies and Degree of Effectiveness,
W77-04355 1009 6E

State V Aamodt (Reserved Water Rights of Pueblos Superior to State Appropriation Laws).
W77-04378 1009 6E

Appropriation and Use of Water (Permits and Licenses; Construction of Works).
W77-04380 1009 6E

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Recent Developments in the Recognition of Instream Uses in Western Water Law,
W77-06044 1012 6E

Water Rights in General.
W77-06061 1012 6E

Gibbons V Globe Development, Nevada, Inc. (Adverse Use And Additional Supply Present Factual Questions Sufficient to Avoid Summary Judgement).
W77-06062 1012 6E

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

Can a State Embargo the Export of Water by Transbasin Diversions,
W77-08129 1017 6E

A New Measure of Damage for Wrongfully Appropriated Water,
W77-08361 1017 4A

Aubert V Town of Fruita (Senior Direct Flow Rights Favored in Dispute Over Dam).
W77-08390 1017 6E

Rights in State Water (Appropriation Plan).
W77-11193 1022 6E

Water Rights (Constitutional Provisions).
W77-11195 1022 6E

Indian Water Rights.
W77-11447 1022 6E

Riparian Rights Revisited: Legal Basis for Federal Instream Flow Rights,
W77-11465 1022 6E

PRIOR DISTRIBUTION

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

PRIORITIES

Appropriation.
W77-01012 1002 6E

Talley V Carley (Priorities to Water in 1963 Amendment to 82 Oklahoma Statutes Annotated Section 1-A).
W77-03521 1007 6E

P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

Gilbert V Smith (Loss of Senior Appropriation Rights Through Abandonment, Forfeiture, or Adverse Possession),
W77-07279 1015 6E

Water Resources Planning and Management Goals,
W77-07523 1015 6B

Appropriation of Water.
W77-08405 1017 6E

Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

Benson V Burgess (Superior and Subordinate Rights to Irrigation Water).
W77-10476 1021 6E

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

PRIORITY RANKING TECHNIQUES

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

PRIVATE PROPERTY

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

PROASELLUS ZONE

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

PROBABILITY

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

Sinepower Probability Density Function,
W77-04276 1009 2E

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

An Application of Computer Graphics to Analysis of Extremes,
W77-05164 1011 2E

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Some Arithmetical Relations of a Matrix for a Calculus of Reservoirs, (Quelques Relations Arithmetiques de Matrice dans le Calcul des Reservoirs),
W77-07682 1016 4A

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

Theoretical Probability Distribution of Critical Hydrologic Events by the Partial-Duration Series Method,
W77-09109 1019 2B

The Use of the Pearson Type 3 and Log Pearson Type 3 Distributions Revisited,
W77-09352 1019 2E

Persistence, Runs and Recurrence of Precipitation,
W77-10110 1021 2B

A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

Law of Probability for Two Low Water Variables,
W77-10297 1021 2E

The Use of Mathematical Models for Forecasting in Hydrology and Meteorology,
W77-10298 1021 2A

Probabilistic Models for Multiple and Synthetic Hydrologic Variables,
W77-10301 1021 2A

A Method of Estimating the Probability of Occurrence of Snow Water Equivalents in the United Kingdom,
W77-11601 1023 4A

Pollution Probability Estimated by Small Storm Frequency,
W77-12620 1024 5B

The Law of Probability Distribution for the Zooplankton Biomass in Lake Baikal, (In Russian),
W77-12984 1024 2H

PROBABILITY DENSITY FUNCTION

Sinepower Probability Density Function,
W77-04276 1009 2E

PROBABILITY THEORY

Wet and Dry Periods of Annual Flow Series,
W77-03319 1007 2E

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

Studies of Pressure and Energy of Standing Waves,
W77-10964 1022 8B

PROBABLE MAXIMUM PRECIPITATION

A Study of Maximum Values of Within-Storm Rainfall,
W77-01127 1003 2B

Generalized Relationship Between Maximum Rain Depth, Area and Return Period for Major Rainstorms,
W77-01131 1003 2B

A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

Degree of Precipitation Irregularity as an Indication of Landscape Zonality,
W77-06307 1013 2B

PROBLEM ANTICIPATION PLANNING

Improved Drilling is a Result of Sound Engineering,
W77-04121 1009 8G

PROBLEM IDENTIFICATION AND RANKING

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

Inland Lake Watershed Analysis,
W77-06356 1013 5G

PROCESS CONTROL

Selection of Parameters for Process Control of Biological Purification of Kraft Mill Effluents (Vybor kanalov upravleniya protsessom biologicheskoi ochistki stochnykh vod sul'fattsellyuloznogo proizvodstva),
W77-12351 1024 5D

PROCESS DESIGN
An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

PROCESSING PLANTS
Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

PRODUCT WATER
Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

PRODUCTION
Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

PRODUCTION EFFICIENCY (IRRIGATION WATER)
Seasonal Water Use of Irrigated Pasture Grasses Under Permanently-Set Irrigation as Related to Climatic Factors,
W77-02834 1006 3F

PRODUCTION FACILITIES
Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

PRODUCTIVITY
Number, Generation Time and Production of Bacteria in Water of the Saratov Reservoir, (In Russian),
W77-00143 1001 5C

Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Proximate Nutritive Value Changes During Decomposition of Salt Marsh Plants,
W77-00402 1001 5C

Transport of Carbon14-Assimilates in the Sugar Beet Under Different Conditions of Nutrition and Moisture, (In Russian),
W77-00421 1001 5B

Cladophora in the Great Lakes,
W77-00928 1002 5C

Growth and Production of Mass Species of Chironomids (Diptera, Tendipedidae) in the Volga Pre-Delta, (In Russian),
W77-01025 1002 5C

Effect of Exogenous Amino Acids on Productivity of Certain Higher Hydrophytes, (In Russian),
W77-02251 1005 5C

Plankton Photosynthesis and Degradation in the Kapchagai Reservoir in the Third Year of its Existence, (In Russian),
W77-02737 1006 5C

A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 1006 5C

The Biomass and Production of the Macrobenthos of the Middle Course of the Saale River, (In German),
W77-02912 1006 5C

Study of Periphyton Productivity in the Novosibirsk Reservoir, (In Russian),
W77-02915 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Growth, Mortality and Production of Brachysynodontis Batensoda (Pisces, Mochocidae) in the Southeastern Archipelago of Lake Tchad, (In French),
W77-03597 1007 2H

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Study of the Production Process of Daphnia Longiremis Sars Population from Lake Dalnee by Means of a Mathematical Model, (In Russian),
W77-04055 1008 5C

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
W77-04069 1008 5C

The Use of Enzyme-Kinetic-Methods for Bacteriological Examinations of Heavily Polluted Surface Waters, (In German),
W77-04094 1008 5C

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Factors Affecting Forest Production on Organic Soils,
W77-04387 1009 4A

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

Investigations on the Phytoplankton of the Northern Central Atlantic: I. The Phytoplankton of the Offshore Region at 30 W Related to a Few Environmental Factors Determining the Production, (In German),
W77-05097 1010 5C

Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

The Production of Marine Organisms Under Natural Conditions and in Cultures (In German),
W77-06375 1013 5C

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Experiment with a Multipoint System for Judging Carp Fattening Ponds, (In Russian),
W77-06798 1014 2H

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Evaluation of Two Methods for Calculating Freshwater Zooplankton Production, (In Russian),
W77-07228 1015 7B

Planktonic Infusoria in Two Lakes of the Gorki Oblast, (In Russian),
W77-07234 1015 5C

Nutrient Transformations in Louisiana Salt Marsh Soils,
W77-07319 1015 5C

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

Planktonic Primary and Bacterial Productivity in Shallow Waters Within a Large Phragmites Community (Neusiedlersee, Austria),
W77-07977 1016 5C

Population Ecology and Production of Benthic Detritivores,
W77-07979 1016 5C

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Planktonic Microbial Heterotrophy: Its Significance to Community Biomass Production,
W77-07993 1016 5C

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

Extracellular Release in Planktonic Bacteria,
W77-07996 1016 5C

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

Reproduction Rate and Productivity of Bacteria in the Ponds of the Karamet-Niyaz Fishery Farm, (In Russian),
W77-08462 1017 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Species Differences in Breakdown of Tree Leaves in Streams--Significance for Composition of Stream Communities,
W77-09056 1018 5B

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

Annual Woody Productivity During a 10-Year Period at Virelles-Blaimont, (Belgium), (In French),
W77-09143 1019 2I

Annual Woody Productivity During a 10-Year Period at Mirwart (Belgium), (In French),
W77-09227 1019 2I

Production Cycles in Aquatic Microcosms,
W77-09500 1019 5C

Determining Photosynthetic Productivity in Streams,
W77-10080 1020 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

A Production Model for Myriophyllum Spicatum L.,
W77-10731 1021 5C

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Phytoplankton of the Upwelling Area of Northwest Africa: I. Pigments and Production (Cruise 'Sahara II' of the Research Vessel 'Cornide De Saavedra'), (In Spanish),
W77-11045 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

The Intensive Production of Fresh Water Algae, (In Dutch),
W77-11506 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

Some Changes in Pond Chemistry and Photosynthetic Activity Following Treatment with Increasing Concentrations of Chlorpyrifos,
W77-12244 1023 5C

The Major Plant Formations of the Izhevsk Reservoir and Their Productivity, (In Russian),
W77-12325 1024 2H

Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

The Biology of Daphnia Magna Straus and the Production of Its Population in Lake Bugaevo (Krasnoyarsk Krai), (In Russian),
W77-12616 1024 2H

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

Phytoplankton Production and Distribution in Howe Sound, British Columbia: A Coastal Marine Embayment-Fjord Under Stress,
W77-12849 1024 5B

Mirex and Marine Unicellular Algae: Accumulation, Population Growth and Oxygen Evolution,
W77-12870 1024 5C

Relationships Between Photosynthetic Production and Light Penetration in Waters of Lake Berre, (In French),
W77-12990 1024 2H

PROFESSIONAL ACTIVITIES

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

PROFESSIONAL PERSONNEL

Attitudes of Professionals in Water Management Toward the Use of Water Quality Indices,
W77-06353 1013 5G

PROFILE WATER STORAGE

Simulation of Profile Water Storage as Related to Soil Hydraulic Properties,
W77-05349 1011 2G

PROFILES

A Simple Tube-Type Water Profile Sampler,
W77-04717 1010 5A

Profiles and Evaporation,
W77-06898 1014 2D

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

PROGRAMMING LANGUAGES

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

Mathematical Programming within the Context of a Generalized Data Base Management System,
W77-07850 1016 6A

PROGRAMS

Regional Wastewater Solids Management Program Los Angeles-Orange County Metropolitan Area,
W77-00011 1001 5E

Review of the Municipal Waste Water Treatment Works Program,
W77-00043 1001 5D

Sewering The City of New York,
W77-00070 1001 5D

User's Guide for Hydrologic Information Storage and Retrieval System,
W77-00161 1001 10B

Directory to U.S. Geological Survey Program Activities in Coastal Areas, 1974-76,
W77-02011 1004 2L

Geological Survey Research 1975.
W77-04974 1010 6B

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W77-07336 1015 6E

Dredged Material Disposal Effects and Alternatives,
W77-07345 1015 8D

Activities of the Water Resources Division in California.
W77-08479 1017 7C

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

Incidence of the Benefits and Costs of Environmental Programs,
W77-08870 1018 6G

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Water Quality Program of the U.S. Geological Survey,
W77-10006 1020 5A

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

Geological Survey Research 1976.
W77-10560 1021 2A

Summary Statements of Water Resources Investigations 1976-77,
W77-10863 1022 9C

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

Upper Bay Survey Vol. IV. Numerical Modeling,
W77-12786 1024 5B

PROJECT BENEFITS
Using Linear Programming to Evaluate Agricultural Flood Control Projects,
W77-00180 1001 3F

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

PROJECT DEAUTHORIZATION
Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

PROJECT EVALUATION
The Use of Continuous Simulation in the Evaluation of Water Quality Management Plans,
W77-00001 1001 5G

PROJECT FEASIBILITY
Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

Canal Commission Law.
W77-05072 1010 6E

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Supplement to Final Environmental Statement; Harry S. Truman Dam and Reservoir.
W77-06538 1013 6B

Appendix A - As Ordered by the Court to the Supplement to the Final Environmental Statement Harry S. Truman Dam and Reservoir Osage River, Missouri.
W77-06539 1013 6B

Planning a Large Irrigation Project,
W77-12711 1024 3F

PROJECT PLANNING
Planning Level and Program Impact Statements under the National Environmental Policy Act: A Definitional Approach,
W77-00705 1002 6G

Commission for Ocean Advancement Through Science and Technology.
W77-01103 1003 6E

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W77-01510 1003 6B

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W77-02076 1005 2A

Project Development and Data Programs for Assessing the Quality of the Willamette River, Oregon,
W77-02301 1005 2E

Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

Improved Drilling is a Result of Sound Engineering,
W77-04121 1009 8G

Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

Connecticut River Water Resource Decision-Making,
W77-06017 1012 6B

Proposed Hydrologic Analyses of Streamflow for Brazil,
W77-06343 1013 2E

Broadening the Approach to Evaluation in Resources Management Decision-Making,
W77-07545 1015 6B

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

Future Water Policies (A Commentary on the National Water Commission Report),
W77-11160 1022 6E

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

California's Water Reclamation and Desalinization Projects,
W77-12295 1024 5D

Planning a Large Irrigation Project,
W77-12711 1024 3F

PROJECT POST-EVALUATION
The Muddy Road to Clean Water,
W77-03587 1007 5G

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

PROJECT PURPOSES
Analysis of the National Flood Insurance Act,
W77-03693 1008 6E

PROJECT SCALE
Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

PROJECT SKYWATER
Draft Environmental Statement: Project Skywater A Program of Research in Precipitation Management, Volume I of II.
W77-01187 1003 6G

PROJECTIONS
Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Projections of Population, Employment, Income and Water Use for Iowa River Basins, 1975-2020,
W77-03542 1007 6D

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

Presenting Trends in Lake Eutrophication,
W77-06693 1014 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Predicting Changes in Land-Use Patterns Resulting from Water Resource Investment Using A Non Stationary Markov Process,
W77-09268 1019 6B

Binghamton Wastewater Management Study: Background Information Appendix.
W77-09381 1019 5G

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W77-10177 1021 6B

Crop Production Potentials in India--A Water Availability Based Analysis,
W77-11091 1022 3F

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

A Population Profile of the Lower Sheyenne River Basin in North Dakota,
W77-12272 1024 6B

PROJECTS
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W77-00731 1002 9D

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

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Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

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W77-05736 1012 9A

General Description of the Vistula River Project and Basic Planning Data,
W77-06733 1014 4A

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W77-07336 1015 6E

The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

Inventory of Active Water Resources Research Projects in North Carolina.
W77-08938 1018 9A

Computer Simulation of Long-Term Secondary Impacts of Water and Wastewater Projects,
W77-09195 1019 5B

Clean Air Equals Dirty Water,
W77-09544 1019 5G

Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
W77-10013 1020 7C

Geological Survey Research 1976.
W77-10560 1021 2A

Description of an Intended Project on Water Quality Estimation,
W77-10817 1022 5B

Key Notes and Impacts of Simulation and Modeling Techniques for Decision Making Water Resources Projects in Developing Areas,
W77-10825 1022 6A

Summary Statements of Water Resources Investigations 1976-77,
W77-10863 1022 9C

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Status of Projects in Minnesota, Fiscal Years 1976 and 77.
W77-11367 1022 9D

Activities of the Water Resources Division of the U.S. Geological Survey in the Caribbean Area in 1976,
W77-11380 1022 9D

Disasters as a Necessary Part of Benefit-Cost Analyses,
W77-11765 1023 6B

A Multicriteria Analysis for Water Resource and Land Use Development,
W77-11773 1023 6A

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W77-11794 1023 9D

Water-Resources Investigations in Texas, Fiscal Year 1977.
W77-12151 1023 4A

California's Water Reclamation and Desalinization Projects,
W77-12295 1024 5D

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W77-12369 1024 9D

PROLINE

The Effect of NaCl on the Concentration of Proline in Different Halophytes, (In German),
W77-04912 1010 2I

PROPACHLOR

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

PROPANE HEAT CYCLE

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

PROPANIDE

Experimental Study of the Action of Pesticides on the Microflora of Bodies of Water, (In Russian),
W77-07982 1016 5B

PROPANIL

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

PROPELLANTS

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

PROPELLER PUMPS

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

PROPERTY DISPUTES

State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

PROPERTY INTERESTS

Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Olson V Bedke (Failure of Tenant to Put Water on Leased Land to Beneficial Use).
W77-07272 1015 6E

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

Hibiscus Harbor, Inc. V. State (Metes and Bounds Description Favored Over Low Water Mark in Determining Outcome of Boundary Dispute).
W77-08389 1017 6E

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

Payne v Whiting (Upper Riparian Owner Responsible for Surface Runoff Damages).
W77-09570 1019 6E

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

State of Florida V Florida National Properties, Inc. (Riparian Boundaries in Meandered, Fresh-Water Lakes).
W77-09577 1019 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

PROPERTY LAW

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

PROPERTY RIGHTS

Old Answers to 'New' Problems: Henry George, Property Rights and Environmental Quality,
W77-02539 1005 6B

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Con-

tent of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

PROPERTY VALUES
Advancing to the Rear: A Strategy of Coastal Zone Management on Eroding Shorelines (Preliminary Discussion),
W77-04488 1009 2L

Environmental Impact on Property Values Along New York's Lake Erie Coastline,
W77-12960 1024 5G

PROPORTIONAL WEIRS
Characteristics of Proportional Weirs,
W77-05355 1011 8B

Proportional Weirs as Velocity Controlling Devices,
W77-10118 1021 8B

PRORATION
A Postscript to the Mutual Prescription Doctrine--City of Los Angeles V City of San Fernando,
W77-08490 1017 6E

PROTACTINIUM-231
Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

PROTAZOA
The Effect of Current Velocity and Changes in Water Level on the Composition of the Planktonic Ciliate Population of the Danube River, (In Hungarian),
W77-02236 1005 5C

PROTEASE
Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07608 1016 5C

PROTECTION
Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

Legal Protection for Florida Wetlands,
W77-03696 1008 6E

Environmental Protection in Mexico and Canada,
W77-03698 1008 6E

Achievements in Marine Conservation, 1. Marine Parks,
W77-06049 1012 5G

Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

PROTECTIVE COATINGS
Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

PROTEIN
Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes,
W77-09785 1020 5C

PROTEIN SYNTHESIS
The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

PROTEINS
Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

Changes in Nitrogen Content in Perential Forage Grasses in Different Grass Mixtures, (In Azerbaijani),
W77-01886 1004 3F

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

Amino Acid and Fractional Composition of Protein of the Vegetative Mass of Corn at Different Levels of Mineral Nutrition and Water Supply, (In Russian),
W77-02918 1006 2I

Carbohydrates and Nitrogeneous Compounds in a Number of Higher Aquatic Plants and Dynamics of Their Content During Vegetation, (In Russian),
W77-02919 1006 2I

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Utilization of the Spent Sulfite Liquor Components in the Pekilo Protein Process and the Influence of the Process upon the Environmental Problems of a Sulfite Mill,
W77-03816 1008 5D

Application of Weak Base Ion-Exchange Resins for Removal of Proteins,
W77-04802 1010 5D

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

Protein Composition of Activated Sludge from a Kraft Mill Effluent Biological Treatment Plant (Sklad bialka osadu czynnego z biologicznej oczyszczalni sciekow posiarczanowych),
W77-05694 1012 5E

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Preparation and Evaluation of Immobolized Single and Multiple Enzyme Systems,
W77-05724 1012 3E

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. V. Observations on the Biochemistry,
W77-07835 1016 5C

Purifying Biological Effluent Rich in Carbohydrates or Protein--By Anaerobic Fermentation Separation, Aerobic Treatment and Then Separation.
W77-08277 1017 5D

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

Activity of Hydrolytic Enzymes in Water and Biomass of Planktonic Organisms in a Reservoir of an Eutrophic Type in the Lagoon of Kursiu Marios, (In Russian),
W77-11509 1023 5C

PROTOCOCCAL ALGAE
Phytomicrobenthos of the Kurtli Reservoir, (In Russian),
W77-07596 1015 5C

PROTOTHECA ZOPFI
Petroleum-Degrading Achlorophyllous Alga Prototheca Zopfi,
W77-04062 1008 5A

PROTOTHECA ZOPFII
Degradation of Petroleum by an Alga, Prototheca Zopfii,
W77-07737 1016 5C

PROTOTYPE TESTS
High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

Cavitation From Surface Irregularities in High Velocity,
W77-03082 1007 8B

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

PROTOTYPES
Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

PROTOZOA
Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Ethanolamine Toxicity in Aquatic Invertebrates (In Romanian),
W77-05454 1011 5C

Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

The Ciliates of Two Bulgarian Tributaries of the Danube which are Polluted: The Rivers Vit and Ossam, (In French),
W77-07573 1015 5B

The Role of Protozoa in Biological Purification of Oil Industry Sewage, (In Russian),
W77-08254 1017 5D

Observations on the Intestinal Protozoa Infecting Man in Rhodesia,
W77-09691 1020 5F

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Urceolarids (Ciliata, Peritricha) from Fishes of the Urals, (In Russian),
W77-09936 1020 2H

Planktonic Ciliates in the Ivan'kovo Water Reservoir, (In Russian),
W77-10010 1020 5C

Protozoan and Helminthic Infections of the Intestines of Humans in the Inyanga Area of Rhodesia,
W77-10076 1020 5G

Holozoic Nutrition of the Ciliated Protozoa: Its Consequences in the Natural and Artificial Purification of Water, (In French),
W77-10708 1021 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

Protozoa as Test Organisms for the Evaluation of the Properties of Effluents (Prosteishie mikroorganizmy kak test-ob''ekty dlya otsenki svoistv stochnykh vod),
W77-12349 1024 5A

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

PROVIDENCE RIVER (RI)

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

PROVO-JORDAN RIVER PARKWAY AUTHORITY (UTAH)

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

PROVO RIVER (UTAH)

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

PROXIMATE CAUSATION

ARK-MO Farms, Inc. V. United States (Problem of Proof in Recovering for Flood Damage to Crops).
W77-01050 1002 3F

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

PRUDHOE BAY

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

PRUDHOE BAY CRUDE OIL

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

PRUDHOE CRUDE OIL

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

PSEUDODIAPTOMUS HESSEI

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

PSEUDOGLEYS

Infiltration of Tritium-Labeled Water in Two Subsoil Loosened Greyloam-Pseudogleys, (In German),
W77-06462 1013 2G

PSEUDOMONAS

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

The Effect of Soluble Organic Matter On the Utilization of Phenoxy Herbicides by Pseudomonas sp.,
W77-08504 1017 5C

Confirmation of the Single-Step Membrane Filtration Procedure for Estimating Pseudomonas Aeruginosa Densities in Water,
W77-08518 1017 5A

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

Growth of an Estuarine Pseudomonas Sp. on Polychlorinated Biphenyl,
W77-10362 1021 5C

PSEUDOMONAS-AERUGINOSA

The Behavior of Pseudomonas Aeruginosa in Surface Water, Cooling Water and Waste Water, (In German),
W77-00347 1001 5B

Mercury and Mercurial Resistance Determined by Plasmids in Escherichia Coli and Pseudomonas Aeruginosa,
W77-03667 1008 5C

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

PSKEM RIVER

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

PSYCHOLOGICAL ASPECTS

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

The Structural Analysis of Environmental Perception and Cognition: A Multidimensional Scaling Approach,
W77-08722 1018 6B

Anti-Pollution Behavior: A Function of Perceived Outcome and Locus of Control,
W77-09378 1019 6G

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

PSYCHROMETERS

Extended Field Use of Screen-Covered Thermocouple Psychrometers,
W77-12116 1023 2G

PSYCHROPHILIC BACTERIA

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

PUBLIC ACCESS

Shoreline Erosion: Implications for Public Rights and Private Ownership,
W77-00982 1002 6E

Tidelands Act; Powers and Regulations.
W77-01005 1002 6E

Circle Investment Co V City of Toledo (Effect of Changing Canal to Limited Access Highway on Abutting Landowners--No Access Required).
W77-01044 1002 6E

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

Navigable Waters (Definition, Enumeration and Offenses).
W77-01120 1003 6E

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

State v Lucius (Sabine River Authority Regulation of Access by Water to Lake).
W77-05074 1010 6E

Recreational Use of Texas Rivers--Recommendations for Adoption of the Texas Public Rivers Act,
W77-08134 1017 6E

Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

Bank of America National Trust and Saving Association V State Water Resources Control Board (Condition Placed on Water Permit Defeated for Lack of Evidence of Necessity).
W77-08391 1017 6E

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

Public Access to Receding Beaches,
W77-10462 1021 6E

The Texas Open Beaches Act: Public Rights to Beach Access,
W77-11156 1022 6E

Constitutionality of the Eckhardt Open Beaches Bill,
W77-11158 1022 6E

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

Who Owns the Beach. Massachusetts Refuses to Join the Trend of Increasing Public Access,
W77-11464 1022 6E

Practical Legal Remedies to the Public Beach Shortage,
W77-11468 1022 6E

PUBLIC BEACH ACCESS
Freedom of Beach,
W77-03584 1007 6E

PUBLIC BENEFITS
General State Powers over Water.
W77-03703 1008 6E

Public Participation in Water Resource Development,
W77-07526 1015 6B

PUBLIC DEDICATION
County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

PUBLIC HEALTH
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Potential Health Impacts of Sludge Disposal on the Land,
W77-00033 1001 5C

FDA's Overview of the Potential Health Hazards Associated with the Land Application of Municipal Wastewater Sludges,
W77-00034 1001 5E

Hygienic Problems of Environmental Protection in Connection with the Further Development of Siberia and the Far East, (In Russian),
W77-00349 1001 5G

Review of PCB (Polychlorinated Biphenyls) in the Environment.
W77-00463 1001 5B

Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

Protection of Public Water Supply.
W77-00991 1002 6E

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Water Pollution Prohibited.
W77-01121 1003 6E

The Epidemiology of Reclaimed Water,
W77-01492 1003 5D

Determination of Estimated Maximum Permissible and Maximum Residual Concentrations of Pesticides in Environmental Objects, Based on the Principles of Complex (Integral) Standardization, (In Russian),
W77-01575 1004 5G

Use of Punch Cards for Accumulating and Analyzing Data on the Sanitary-Epidemiological State of Rural Populated Areas, (In Russian),
W77-01600 1004 5G

Effects of Pollution on Human Health,
W77-02045 1004 6G

Environmental Pollution Control and Health Benefits,
W77-02046 1004 6G

Panel 'C' - Toxic Substances,
W77-02054 1004 6G

The Effects of Water Pollution from Non-Point Sources as It Relates to the Health of Man,
W77-02058 1004 5G

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Sanitary-Hygienic Evaluation of the Recycled Water Supply on Railroads, (In Russian),
W77-02241 1005 3E

Water Hardness and Incidence of Malignant Neoplasms Among the Population, (In Russian),
W77-02384 1005 5F

Environmental Aspects of Chemical Use in Printing Operations, (September 22-24, 1975, King of Prussia, PA.), Conference Proceedings.
W77-02553 1005 5C

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

National Cancer Institute Program of Cancer Surveillance, Epidemiology and End Results Reporting (Seer Program),
W77-02843 1006 5A

The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
W77-02845 1006 5G

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Experimental, Clinical and Physiological Data for Substantiating the Lower Limits of the Mineralization of Desalinated Drinking Water, (In Russian),
W77-02895 1006 5C

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Study of the Effect of Desalted Drinking Water on the Health of the Population, (In Russian),
W77-03037 1006 5F

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress.
W77-03360 1007 5A

Report on Pollution in Las Vegas Wash and Las Vegas Bay.
W77-03371 1007 5C

Water, Lighting and Sewers.
W77-03506 1007 6E

Water and Sewage.
W77-03724 1008 6E

Standard 'Potable Water' (All-Union State Standard 2874-73, A New Stage in the Development of Water Hygiene, (In Russian),
W77-03853 1008 5G

Technical and Microeconomic Analysis of Cadmium and its Compounds,
W77-03963 1008 5B

Forecastings a Line of Investigations of Member Countries of the Council of Mutual Economic Assistance in the Area of Environmental Hygiene, (In Russian),
W77-04016 1008 5G

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Water Reservoirs.
W77-04381 1009 6E

Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

Human Enteric Viruses in a Waste-Recycling Aquaculture System,
W77-04636 1010 5D

The Conservancy Act of New Mexico (Creation and Powers of Conservancy Districts),
W77-05076 1010 6E

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Case of a Polluted Water Pipeline, (In Russian),
W77-05687 1012 5B

Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

Mercury in Fish and Shellfish of the Northeast Pacific. I. Pacific Halibut, Hippoglossus Stenolepis,
W77-05865 1012 5B

Procedure for Hygienic Studies in Determining Local Methods for Protecting Water Resources of Marine Bodies of Water, (In Russian),
W77-05878 1012 5B

Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

The Accumulation of Mercury in Fishes Reared in the Sea Water Contaminated by Suspended Solids Containing Mercury, (In Japanese),
W77-06404 1013 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

Health Effects of Multipurpose Use of Water,
W77-06775 1014 5C

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Benzene Sources of Contamination, Ambient Levels, and Fate of Benzene in the Environment,
W77-07819 1016 5B

Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

Health Considerations in Use of Tertiary Effluents,
W77-08513 1017 5F

Pollution Indicator Bacteria Associated with Municipal Raw and Drinking Water Supplies,
W77-08516 1017 5A

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

A Study of Heavy Metals in Lake Abbaya, Ethiopia, and the Incidence of Non-Parasitic Elephantiasis,
W77-08774 1018 5A

Interim Primary Drinking Water Regulations: Promulgation of Regulations on Radionuclides.
W77-08985 1018 5G

The Tugela-Vaal State Water Scheme as a Bilharzia Risk (Die Tugela-Vaal-Staatswaterskema as 'n Bilharziarisiko),
W77-09690 1020 5G

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

Protozoan and Helminthic Infections of the Intestines of Humans in the Inyanga Area of Rhodesia,
W77-10076 1020 5G

Releasing Dead Animals, Etc., Into or Near Waters.
W77-10501 1021 6E

A Hygienic Evaluation of Boron in Potable Waters, (In Russian),
W77-10582 1021 5C

Water Pollution and Human Health,
W77-10751 1021 5C

Investigation of Selected Potential Environmental Contaminants: Mercaptobenzothiazoles,
W77-10940 1022 5C

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

Vibrio Parahaemolyticus - A Marine Pathogen Detected in South African Coastal Waters,
W77-11553 1023 5C

Serum Immunoglobulin Levels in White and Black Patients with Virus-A and Virus-B Hepatitis,
W77-11562 1023 5C

Progress of Studies on the Type A (Infectious) Hepatitis Virus in Water,
W77-11571 1023 5A

Health Aspects of Potable Water Supplies,
W77-11573 1023 5F

PUBLIC HEALTH

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

Impact of Water Resources on Vector-Borne Diseases,
W77-11774 1023 5B

Proceedings of a Conference on Emerging Environmental Problems: Acid Precipitation.
W77-12809 1024 5A

Health Effects of Acid Aerosols,
W77-12813 1024 5A

PUBLIC HEALTH ENVIRONMENTAL CONTROL

A Fluorescence Immunoassay Technique for Detecting Organic Environmental Contaminants,
W77-08947 1018 5A

PUBLIC HEALTH SCREENING

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

PUBLIC HEALTH STATISTICS

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

PUBLIC INFORMATION

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

PUBLIC INLAND LAKES

Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

PUBLIC INTEREST

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Coastal Sand Dunes,
W77-05405 1011 2L

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

PUBLIC INTEREST GROUPS

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

PUBLIC INVESTMENT

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

PUBLIC LANDS

Marine Resources Commission--Oyster Grounds--Use of Subaqueous Lands for Construction and Maintenance of Sewage Disposal Facilities.
W77-01015 1002 6E

Project Proposal for Surface-Mined Land Enhancement (SMILE),
W77-01699 1004 5G

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

PUBLIC LAW

History of Ocean Dumping in the Gulf of Mexico,
W77-02668 1006 5E

PUBLIC LAW 92-500

Control of Turbidity at Construction Sites,
W77-00808 1002 4D

The Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W77-06532 1013 5D

PUBLIC OPINION

Public Participation in Water Resource Development,
W77-07526 1015 6B

PUBLIC OPINION SAMPLING

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

PUBLIC OPINION SURVEYS

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

PUBLIC PARTICIPATION

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

Public Participation in Water Resource Development,
W77-07526 1015 6B

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

Classification and Test of Public Participation Concepts Applied to Local Rescurce Planning,
W77-08295 1017 6B

Citizen Participation in Water Policy Formation,
W77-08603 1018 6B

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

PUBLIC POLICY

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

PUBLIC RELATIONS

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

PUBLIC RIGHTS

Shoreline Erosion: Implications for Public Rights and Private Ownership,
W77-00982 1002 6E

Harbors, Tide Waters and Water Rights.
W77-01003 1002 6E

Tidelands Act; Powers and Regulations.
W77-01005 1002 6E

Louisiana Environmental Society V Brinegar (Environmental Impact Statement as to Artificial Lake to be Bridged by Highway Construction).
W77-01045 1002 6E

Public Rights to Artificial Waterbodies in Florida,
W77-01088 1003 6E

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Property-Coastal Shores-Private Property Rights Upheld over Claimed Public Right to Recreational use of Beach-Implied Dedication, Easement by Prescription, Public Trust Through Custom and Grant, and Doctrine of Submergence not Applicable. Department of Natural Resources V. Mayor and Council of Ocean City, 274 Md. 1, 332 A.2d 630 (1975).
W77-07239 1015 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

Who Owns the Beach. Massachusetts Refuses to Join the Trend of Increasing Public Access,
W77-11464 1022 6E

PUBLIC TRUST

The Deltona Corporation V Board of Trustees of the Internal Improvemenr Trust Fund.
W77-03708 1008 6E

PUBLIC TRUST DOCTRINE
Public Rights to Artificial Waterbodies in Florida,
W77-01088 1003 6E

Ownership of Submerged Lands in Florida,
W77-03695 1008 6E

The Public Trust Doctrine: A Viable Approach to International Environmental Protection,
W77-04853 1010 6E

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

United Plainsmen Association V. North Dakota State Water Conservation Commission (Conservation Planning Responsibility of State Engineer Prior to Issuing Water Permits).
W77-06081 1012 6E

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

The Navigability Concept in the Civil and Common Law: Historical Development, Current Importance, and Some Doctrines That Don't Hold Water,
W77-06553 1013 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

Caine v Cantrell (Private Individuals Not Allowed to Obstruct Public Lands).
W77-09572 1019 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Ownership Problems with Respect to Non-Meandered Offshore Island,
W77-12894 1024 6E

PUBLIC TRUST DOCTRINES
Artificial and Natural Lakes,
W77-03694 1008 6E

PUBLIC USE
County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

PUBLIC UTILITIES
Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

PUBLIC WORKS
Public Participation in Water Resource Development,
W77-07526 1015 6B

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W77-01418 1003 2H

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W77-07140 1015 10C

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W77-12865 1024 5C

PUEBLO AREA (COLO)
Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

PUEBLO OF LAGUNA (NM)
Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

PUEBLO RESERVOIR
Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

PUEBLO WATER RIGHTS
State V Aamodt (Reserved Water Rights of Pueblos Superior to State Appropriation Laws).
W77-04378 1009 6E

PUERCO-ZUNI AREA (ARIZ)
Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

PUERTO RICO
United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

Environmental Impact Assessment, Water Quality Analysis, Puerto Rico.
W77-01971 1004 5G

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Rooting and Growth of Red Mangrove Seedlings from Thermally Stressed Trees,
W77-05547 1011 5C

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

Water Supply and Waste Disposal, Culebra, Puerto Rico,
W77-06345 1013 5E

History of Dredging and Filling of Lagoons in the San Juan Area, Puerto Rico,
W77-06346 1013 5B

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Particle Characteristics and Dispersal Patterns of Sugar Cane Wastes in Selected Rivers and Estuaries of Puerto Rico,
W77-06632 1014 5B

Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

PUERTO RICO

A Comparison of Environments of Rain Forests in Dominica and Puerto Rico,
W77-10988 1022 2G

Activities of the Water Resources Division of the U.S. Geological Survey in the Caribbean Area in 1976,
W77-11380 1022 9D

PUERTO RICO (NORTH COAST LIMESTONE AREA)

Water Resources of the North Coast Limestone Area, Puerto Rico,
W77-06335 1013 4B

PUERTO RICO SOUTH COAST

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

PUGET SOUND

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

PUGET SOUND (WASH)

Lake Washington Ship Canal,
W77-01001 1002 6E

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

Erosion Defense Structures on the Puget Sound Shoreline,
W77-11038 1022 4D

Tide Prints: Surface Tidal Currents in Puget Sound,
W77-11653 1023 2L

PULP AND PAPER INDUSTRIES

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

PULP AND PAPER INDUSTRY

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W77-00752 1002 5C

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Of Slime and the River,
W77-01084 1003 5B

Considerations for Land Disposal of Paper and Pulp Mill Sludge,
W77-01654 1004 5E

Use of Chlorine Dioxide-Alkali for High-Yield Pulping,
W77-01664 1004 5D

Whitewater System Closure in NSSC Corrugating Medium Manfacture,
W77-01673 1004 5D

C(rown) Z(ellerbach)'s Solids Waste Problems at Wauna are Reduced by Composting,
W77-02572 1005 5E

Water Resource Management in the Czechoslovakian Paper Industry During the Fifth Five-Year Plan Period (Vodni hospodarstvi papirenskeho prumyslu CSR v pate petiletce),
W77-02578 1006 3E

Environmental Outlook: Where We Stand, What's Ahead,
W77-02580 1006 5G

Possibility of Introducing Waste-Free Technology in the Pulp and Paper Industry (Vozmozhnosti vnedreniya bezotkhodnoi tekhnologii v otrasli),
W77-02583 1006 3E

Chemical Pulping,
W77-02606 1006 5B

Biological Process for Effluent and Waste Treatment as Applied in the Paper Industry,
W77-02607 1006 5D

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

Pollution of Interstate Waters of the Lower Columbia River Bonneville Dam to Cathlamet, Washington.
W77-03385 1007 5B

Potentials of Using Spent Oxygen Bleaching Liquor in the Sulphite Process,
W77-03615 1008 5D

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

Manufacture of Boxboard in a Closed Water Cycle (Proizvodstvo korobochnogo kartona pri zamknutom vodooborote),
W77-03791 1008 3E

Design of an Efficient Water System for a Kraft Pulp Mill,
W77-03804 1008 5D

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Effect of Residues from Effluent Treatment During Solid Board Manufacture (Auswirkung von Rueckstanden aus der Abwasserreinigung bei der Vollpappenerzeugung),
W77-03819 1008 5D

Opportunities and Risks of Closing the Water Cycle in Paper Mills (Chancen und Risiken der Wasserkreislaufschliessung in Papierfabriken),
W77-04815 1010 5D

Wastewater Problems and Economy (Abwasserprobleme und Wirtschaftlichkeit),
W77-04818 1010 5D

How to Reduce Steam Consumption in the Paper Mill Machine Room,
W77-04822 1010 3E

NSSC Recovery Process Eliminates Five-Day BOD 5 Load and Recovers Chemicals,
W77-04826 1010 5D

Environmental Concerns of Wood-Processing Industries (In Austria),
W77-04829 1010 5G

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

Industry and the Environment,
W77-05508 1011 5G

The Consumption of Water in the Paper Industry (Il consumo d'acqua nell'industria cartaria),
W77-05684 1012 3E

Biological Possibilities for Waste Water Purification (Consideratii asupra posibilitatilor biologice de purificare a apelor reziduale),
W77-05685 1012 5G

The Paper Industry's Enviroeconomics,
W77-05700 1012 5D

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

Proceedings of Seminars on Water Pollution Abatement Technology in the Pulp and Paper Industry.
W77-05708 1012 5D

Fish Toxicity with Specific Reference to the Pulp and Paper Industry,
W77-05712 1012 5C

Sludge Dewatering and Handling Practices in the U.S. Paper Industry,
W77-05714 1012 5E

Specialized Internal Practices (For Pollution Abatement),
W77-05715 1012 5D

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

Literature Review of Wastewater Characteristics and Abatement Technology in the Wood and Timber Processing Industry.
W77-06951 1014 5D

Proceedings, Water Pollution Abatement Technology in the Pulp and Paper Industry, (1975),
W77-07562 1015 5D

Review of Colour Removal Technology in the Pulp and Paper Industry,
W77-07734 1016 5D

Kraft Mill Recovery System,
W77-08258 1017 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Operational Considerations for the Application of Remotely Sensed Forest Data from LANDSAT or Other Airborne Platforms,
W77-08417 1017 7C

Timber Type Separability in Southeastern United States on LANDSAT-1 MSS Data,
W77-08418 1017 4A

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

Fiberboard Mill Recycles Water.
W77-09728 1020 5D

How to Reduce Water and Raw Material Consumption in Papermaking (Come ridurre i consumi d'acqua e di materie prime in cartiera),
W77-09738 1020 3E

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Water Reuse in a Paper Reprocessing Plant,
W77-09757 1020 5D

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

A Long-Range Program for Meeting the Paper Industry's Environmental Protection Technical Information Needs,
W77-10720 1021 5G

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

Water Usage in Paper and Board Mills,
W77-12344 1024 3E

Processing Changes and Closed Systems Designed for Minimum Effluent Discharge from the Manufacture of Paper Pulp (Processandringar och slutna system for att minska utslapp fran tillverkning av pappersmassa),
W77-12361 1024 5D

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

Review Paper: The Toxicity of Pulp and Paper Mill Effluents and Corresponding Measurement Procedures,
W77-12865 1024 5C

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

PULP BLEACHING

An Overview of New Pulp Bleaching Developments,
W77-01665 1004 5D

PULP PRODUCTIVITY

Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

PULP WASHING

Purification of Waste Waters from the Manufacture of Rag Pulp-Containing Paper (Ochistka stochnykh vod ot proizvodstva bumagi s ispol' zovaniem tryapichnoi polumassy),
W77-05683 1012 5D

PULP WASTES

Biological Purification of the Izmail Board Mill Effluents (Biologicheskaya ochistka stochnykh vod Izmail'skogo Tsellyulozno-Kartonnogo Kombinata),
W77-00322 1001 5D

Diminution of Suspended Solids in Pulp and Paper Industry Effluents by Treatment with Chemical Coagulants (Diminuarea continutului de suspensii totale in apele reziduale din industria celulozei si hirtiei, prin tratarea cu agenti chimici coagulanti),
W77-00323 1001 5D

Biodegradability of Phenolic Compounds (Biodegradabilita di composti fenolici),
W77-00328 1001 5D

Waste Water Treatment at SCP (Semichemical Pulp), CGP (Chemigroundwood Pulp) Mills,
W77-00329 1001 5D

Bleachability of Softwood and Hardwood Kraft Pulps in Ozone Bleaching (In Japanese),
W77-00330 1001 5D

Status Report on Abatement of Effluents from the Canadian Pulp and Paper Industry -- 1974.
W77-00331 1001 5G

State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

A Rapid Method for Measuring the Acute Toxicity of Pulp Mill Effluents and Other Toxicants to Salmonid Fish at Ambient Room Temperature,
W77-00336 1001 5C

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

GS/MS (Gas Chromatographic/Mass Spectrometric) Analyses of Organic Compounds in Treated Kraft Paper Mill Wastewaters,
W77-00456 1001 5A

Fate of Selected Organic Compounds in the Discharge of Kraft Paper Mills into Lake Superior,
W77-00457 1001 5B

Persistent Organic Compounds from a Pulp Mill in a Near-Shore Freshwater Environment,
W77-00458 1001 5B

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

Of Slime and the River,
W77-01084 1003 5B

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

Hygienic Characteristics of Wastewater Treatment Processes of Flax-Processing Plants, (In Russian),
W77-01556 1004 5D

Modelling of Processes and Plants for Waste Water Settling, (In Hungarian),
W77-01586 1004 5D

The Waste Treatment Facility of Monadnock Paper Mills, Inc.
W77-01641 1004 5D

Introduction of a New Effluent Purification System (Vnedrenie novoi skhemy ochistki stokov),
W77-01644 1004 5D

Biological Clarification Plant Started Up at the Wiesloch Corrugated Board Mill (Wellpappe Wiesloch nahm biologische Klaeranlage in Betrieb).
W77-01647 1004 5D

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Preliminary Study of Pulp Mill Effluent Decolorization by the Method of Simultaneous Coagulation (Wstepne badania odbarwiania sciekow celulozowych metoda koagulacji symultanicznej),
W77-01650 1004 5D

Dewatering of Activated Sludge with Filter Belt Presses,
W77-01651 1004 5D

Investigation of the Problem of Determining Total Suspended Solids in Pulp and Paper Effluents,
W77-01652 1004 5A

Color Removal in a Ferric Chloride-Lime System,
W77-01653 1004 5D

Purification of Pulp and Paper Mill Effluents by Radiation Polymerization. I. Purification with the Use of Methyl Methacrylate (Ochistka stochnykh vod predpriyatii tsellyulozno-bumazhnoi promyshlennosti metodom radiatsionnoi polimerizatsii. I. Ochistka s primeneniem metilmetakrilata),
W77-01655 1004 5D

Use of Ozone in a Combined System for the Purification of Kraft Mill Effluents (Primenenie ozona v kombinirovannoi sisteme glubokoi ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-01656 1004 5D

Modern Methods of Purifying Pulp and Paper Mill Effluents (Sovremennye metody ochistki stochnykh vod predpriatii tsellyulozno-bumazhnoi promyshlennosti),
W77-01657 1004 5D

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Bark as Non-Inert Trickling Filter Medium for Pulp Mill Effluent,
W77-01666 1004 5D

Chemistry of West Coast Groundwood Effluent Toxicity,
W77-01668 1004 5C

Uddeholm (Forest Industries) -- Kamyr Closed Bleached Plant (at Skoghall, Sweden),
W77-01671 1004 5D

Treatment of Contaminated Condensates,
W77-01672 1004 5D

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

Method of Producing Char from Pulp Manufacturing Waste Liquor,
W77-01676 1004 5E

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

1975 Review of the Literature on Pulp and Paper Effluent Management,
W77-01678 1004 5D

An Investigation of the Separability and Reuse Potential of the Ash Component of High-Ash Content Paper Mill Sludges,
W77-01679 1004 5D

Filter, Especially for Back Water,
W77-01720 1004 5D

The Effect of Gamma Irradiation on Pulp and Paper Mill Effluents,
W77-02000 1004 5D

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

On Spent Liquor of Semichemical Pulping (V). Improvement of the Color Removal Efficiency by the Photochemical Treatment (SCP haieki ni tsuite (V). Shigaisen shori ni okeru shosha koritsu no kojo),
W77-02008 1004 5D

An Experimental High-Ash Paper Mill Sludge Landfill: Second Annual Report,
W77-02555 1005 5E

An Experimental High-Ash Paper Mill Sludge Landfill: First Annual Report,
W77-02556 1005 5E

Organic Compounds in Pulp Mill Lagoon Discharge,
W77-02558 1005 5A

Toxicity, Uptake and Survey Studies of Boron in the Marine Environment,
W77-02565 1005 5C

New Biological Clarifier of the Wiesloch Paper Mill of Holfelder-Werke GMBH. Und Co. KG. (Neue biologische Klaeranlage der Papierfabrik Wiesloch der Holfelder-Werke GmbH und Co. KG.),
W77-02566 1005 5D

New Clarifier Installation for Albbruck Paper Mill (Neue Klaeranlage der Papierfabrik Albbruck).
W77-02567 1005 5D

Environmental Protection in the Pulp and Paper Industry, Possibilities of Realization and Present State of Technology (Umweltschutz in der Zellstoff- und Papierindustrie, Moeglichkeiten der Realisierung und heutiger Stand der Technik),
W77-02568 1005 5D

Modern Separation Processes for Eliminating Waste Water and Sludge Problems in Pulp and Paper Mills (Neuzeitliche Trennungsverfahren zur Beseitigung des Abwasser und Schlammproblemes in Zellstoff- und Papierfabriken),
W77-02569 1005 5D

Treatment of Papermaking Effluents (Traitement d'effluents de papeteries),
W77-02570 1005 5D

Fixed Biological Surfaces -- Wastewater Treatment: The Rotating Biological Contractor,
W77-02571 1005 5D

Progress in Sublethal Effect Studies with Kraft Pulp Mill Effluent and Salmonids,
W77-02573 1005 5C

Study of Dewatering of Cellulosic Sludge from the Viscose Fiber Industry (Issledovanie po obezvozhivaniyu tsellyuloznogo shlama predpriyatii viskoznogo volokna),
W77-02575 1005 5D

Some Internal Measures for Reducing Effluent Load, for Example, in a Calcium Bisulfite Mill (Einige innerbetriebliche Massnahmen zur Verminderung der Vorfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02576 1006 5D

Purification of Waste Waters at Cellulose Attisholz (Epuration des eaux residuaires a la fabrique de Cellulose de Attisholz),
W77-02577 1006 5D

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. I. Study of Lignin Decomposition Products (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. I. Issledovanie produktov razrusheniya lignina),
W77-02585 1006 5B

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. II. Physicochemical Properties of Lignin Decomposition Product (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. II. Fiziko-khimicheskaya kharakteristika produkov razrusheniya lignina),
W77-02586 1006 5B

Modeling of Organic Components in Alkaline Effluents from Kraft Pulp Production. III. Study of Carbohydrate Decomposition Products (Modelirovanie organicheskikh komponentov shchelokosoderzhashchikh stochnykh vod sul'fatno-tsellyuloznogo proizvodstva. III.

Izuchenie producktov razrusheniya uglevodnoi chasti drevesiny),
W77-02587 1006 5B

Chemical Pulping,
W77-02606 1006 5B

Biological Process for Effluent and Waste Treatment as Applied in the Paper Industry,
W77-02607 1006 5D

Advanced Treatment of Pulp Waste Water (Parapu haisui no kodo shori),
W77-02608 1006 5D

Some Internal Measures for the Reduction of the Effluent Load Shown by the Example of a Calcium-Bisulphite Pulpmill (Einigeinnerbetriebliche Massnahmen zur Verminderung der Verfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02609 1006 5D

The Effectiveness of the Finnish Anti-Mercury Measurements in the Moderately Polluted Area of Hameenkyro, (In Finnish),
W77-02733 1006 5C

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Purification of Effluents from the Manufacture of Paper and Board by Electrochemical Method (Ochistka stochnykh vod kartonnogo-bumazhnogo proizvodstva elektrokhimicheskim metodom),
W77-03789 1008 5D

Purification of Technical Paper Mill Effluents (Ochistka stochnykh vod fabriki tekhnicheskikh bumag),
W77-03792 1008 5D

Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Marine Phytoplankton Growth in High Concentrations of Pulp Mill Effluent,
W77-03798 1008 5C

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Synthetic Flocculants for the Purification of Kraft Mill Effluents (Sinteticheskie flokulyanty dlya ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-03812 1008 5D

Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

Electrochemical Purification of Effluents from the Manufacture of Sulfite and Kraft Pulps (Elektrokhimicheskaya ochistka stochnykh vod ot proizvodstva sul'fitnoi i sul'fatnoi tsellyulozy),
W77-03815 1008 5D

Possible uses for Fibrous Sludges from the Pulp and Paper Industry,
W77-03817 1008 5E

Experiences in Closing the Water System in a Paper and Board Mill (Erfahrungen bei der Kreislaufschliessung einer Papier- und Kartonfabrik),
W77-03818 1008 5D

Operating Experiences with an Electrolytic Method for Purifying NSSC (Neutral Sulfite Semichemical) Effluent (Betriebserfahrungen mit einem elektrolytischen Verfahren bei der Reinigung von NSSC-Abwasser),
W77-03820 1008 5D

Wet Oxidation of Clarification Sludge and Pulp Effluent by the Zimpro Process (Nassoxydation von Klaerschlamm und Zellstoffablauge mit dem Zimpro-Verfahren),
W77-03823 1008 5D

Biological Effluent Clarification in the Paper Mill Circulation System (Biologische Abwasseraufbereitung im Kreislauf einer Papierfabrik),
W77-03824 1008 5D

Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

Investigations on the Crosslinking of Spent Sulfite Liquor (Untersuchungen zur Vernetzung technischer Sulfitablauge),
W77-04807 1010 5D

Reduction of Suspended Solids in Woodroom Effluents (Reduksjon av suspendert materiale i avlopsvann fra tommerrenserier),
W77-04810 1010 5D

Influence of Retention on the Treatment of Effluents (Influence de la retention sur le traitement des effluents),
W77-04811 1010 5D

Water and Paper (L'eau et le papier),
W77-04812 1010 5D

Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Experiences with the Thickening and Burning of Biological and Nonbiological Sludges (Erfahrungen bei der Entwaesserung und Verbrennung von biologischen und nichtbiologischen Schlaemmen),
W77-04814 1010 5E

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

Continuous Solid-Bowl Centrifuges for Clarification and Dewatering of Sludges in the Paper Industry (Centrifugeuses continues a bol plein pour clarification et deshydratation des boues dans l'industrie papetiere).
W77-04817 1010 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

Purification of Effluents from Barking Beech and Pine (Badania nad oczyszczaniem sciekow z korowalni drewna bukowego i sosnowego),
W77-04821 1010 5D

Modified Water Extractor Recovers Bark Fines, Reduces Clarifier Upsets.
W77-04823 1010 5D

Percolating Effluent into Ground Reduces Color at Missoula Mill,
W77-04824 1010 5D

Environmental Concerns of Wood-Processing Industries (In Austria),
W77-04829 1010 5G

Mill Visit to Haindl Papier GMBH at Schongau (Besichtigung des Werkes Schongau der Haindl Papier GmbH).
W77-04830 1010 5D

Liquid-Solids Separation Using an Inclined Plate Clarifier,
W77-04832 1010 5D

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

Sand Bed Filter with Automatic Sludge Discharge-as Sludge Sump Pressure Rises, Uses Compressed Air to Comb Bed,
W77-05514 1011 5D

Treatment of Water and Effluent: Air Flotation.
W77-05515 1011 5D

Removing Polyvinyl Alcohol from Waste Water with Boric Acid or Borax-with Reuse of Water in Textile Sizing, and Reuse of Polymer Borate Compound in Textile Sizing, Adhesives, and Treating Paper Fibres.
W77-05516 1011 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Treatment of Spent Bisulfite Liquor by the Technique of Ion-Exclusion,
W77-05518 1011 5D

Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Purification of Waste Waters from the Manufacture of Rag Pulp-Containing Paper (Ochistka stochnykh vod ot proizvodstva bumagi s ispol' zovaniem tryapichnoi polumassy),
W77-05683 1012 5D

Effects of Kraft Pulping Effluents on the Benthic Algal Populations in Northwestern Spain. I. Distribution and Abundance of Characteristic Fucaceae (Incidencia de vertidos industriales en la estructura de poblaciones intermareales. I. Distribucion y abundancia de Fucaceas caracteristicas),
W77-05690 1012 5C

Protein Composition of Activated Sludge from a Kraft Mill Effluent Biological Treatment Plant (Sklad bialka osadu czynnego z biologicznej oczyszczalni sciekow posiarczanowych),
W77-05694 1012 5E

New Sludge-Dewatering Press Makes Its Debut at Glatfelter (Paper Mill).
W77-05695 1012 5D

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

New In-Plant Technology to Reduce Pollution from a Sodium Base Sulphite Mill,
W77-05699 1012 5D

Method of Purifying the Waste Water of Paper Mills,
W77-05703 1012 5D

Purification of Waste Water from Sulfate Pulp Bleaching Plants,
W77-05704 1012 5D

Water Reuse in 100% Secondary Fibre Pulping Mill,
W77-05705 1012 5D

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

Proceedings of Seminars on Water Pollution Abatement Technology in the Pulp and Paper Industry.
W77-05708 1012 5D

Suspended Solids Removal,
W77-05710 1012 5D

Biological Waste Treatment,
W77-05711 1012 5D

Fish Toxicity with Specific Reference to the Pulp and Paper Industry,
W77-05712 1012 5C

Biological Degradation of Difficult-To-Oxidize Effluent Components (Biologicheskaya destruktsiya trudnookislyaenykh komponentov stochnykh vod),
W77-05716 1012 5D

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

Proposed Effluent Guidelines and Standards for Pulp, Paper and Paperboard Point Source Category.
W77-06055 1012 5G

Bio-Treatment of Effluents with BOD Below 100 MG/L,
W77-06223 1013 5D

Treatment of Contaminated Condensates,
W77-06224 1013 5D

Activated Sludge Treatment of High Strength NSSC Mill Effluent,
W77-06945 1014 5D

Inline Sensor Tightens Control on Sludge Consistency to Within 1.4-1.5% Solids,
W77-07214 1015 5D

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W77-07217 1015 5D

Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

Proceedings, Water Pollution Abatement Technology in the Pulp and Paper Industry, (1975),
W77-07562 1015 5D

Review of Colour Removal Technology in the Pulp and Paper Industry,
W77-07734 1016 5D

The Study of the Benthos Community Around the Mouth of the Port of Tagonoura in Suruga Bay, (In Japanese),
W77-07735 1016 5C

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Sewage Sludge Incineration Should Be Improved by Addition of Newsprint Pulp.
W77-08639 1018 5E

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

Method of Purifying Waste Water,
W77-08881 1018 5D

Method for Purifying Water of Organic Compounds Not Readily Biodegradable,
W77-08883 1018 5D

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

Fiberboard Mill Recycles Water.
W77-09728 1020 5D

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Characterization of Spent Bleaching Liquors. Part 1, Spent Liquors from the Chlorine and Alkali Extraction Stages in the Prebleaching of Pine Kraft Pulp,
W77-09731 1020 5A

Brown (Co.) Recycles De-inking Water on Tissue-Grade Products,
W77-09732 1020 5D

Application of Reverse Osmosis and Ultrafiltration to the Purification of Pulp and Paper Industry Effluents (Zastosowanie odwroconej osmozy i ultrafiltracji do oczyszczania sciekow z przemyslu celulozowo-papierniczego),
W77-09733 1020 5D

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Effluents of Kraft Mills and Their Toxicity for Hydrobionts (Stochnye vody sul'fat-tsellyuloznykh zavodov i ikh toksichnost' dlya gidrobiontov)),
W77-09739 1020 5C

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Paper Mill Wastewater Treatment by Microstraining,
W77-09758 1020 5D

Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

Foam Breaking--A Key Process in Detoxification of Kraft Mill Effluents by Foam Separation,
W77-10693 1021 5D

Example of Planning for Environmental Protection (Planungsbeispiel zum Umweltschutz).
W77-10694 1021 5D

Apparatus for Treating a Liquid Using a Percolating Layer (Appareil de traitment de liquide a couche de percolation).
W77-10696 1021 5D

Contribution of the Pulp and Paper Industry to Agriculture (Tsellyulozno-bumazhnaya promyshlennost' -- sel'skomu khozyaistvu),
W77-10702 1021 5E

Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa

po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

Study of Dilution of Sulfite Mill Effluents in Large Rivers and Evaluation of Determining Factors (Issledovanie protsessa razbavleniya stokov sul'fit-tsellyuloznogo proizvodstva v usloviakh bolshikh rek i otsenka opredelyashchikh faktorov),
W77-10704 1021 5B

A Summary of Receiving Water Dissolved Oxygen Conditions Below Pulp and Paper Mill Locations,
W77-10705 1021 5B

Use of Inorganic Sorbents for the Purification of Kraft Mill Effluents (Primenenie neorganicheskikh sorbentov dlya grubokoi ochistki vod sul'fat-tsellyuloznogo proizvodstva),
W77-10709 1021 5D

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

Separation of Fibers from Paper Mill Effluent with Continuously Backwashed, Pressurized, Liquid Filter,
W77-10713 1021 5D

Raw Waste Loading Characteristics and Effluent Quality in the Wet Process Hardboard Manufacturing Industry,
W77-10715 1021 5D

Purification of Pulp Mill Effluents by the Activated Sludge Method Using Pure Oxygen (Wyniki badan oczyszczania sciekow celulozowych metoda osadu czynnego z uzyciem czystego tlenu),
W77-10716 1021 5D

Daphnia Pulex Pulls Its Weight in Pulp Mill Toxicity Tests,
W77-10718 1021 5A

Pulp Mill Condensates Cleaned Biologically with the Aid of Bark (Massafabrikernas kondensatvatten renas biologiskt med hjalp av bark).
W77-10719 1021 5D

Some Theoretical and Practical Aspects of Biological Purification of Effluents from Sulfite Pulping (Einige theoretische und praktische Aspekte der biologischen Sulfitzellstoffabwasserreinigung),
W77-10722 1021 5D

Studies on Coagulation Treatment of Spent Water from Pulping Process. (Part 3). Coagulation Mechanism of Lignin (In Japanese),
W77-10761 1021 5D

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

Louisiana Pacific Corporation and Crown Simpson Pulp Company (Requests for Variances from BPCTCA).
W77-11459 1022 5G

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Pulp and Paper Mill Effluent in a Freshwater Environment,
W77-12059 1023 5B

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

Fluorescence Tracing of the Flow and Dispersion of Sulfite Wastes in a Fjord System,
W77-12333 1024 5B

Process for Purifying Industrial Effluents.
W77-12335 1024 5D

PCBs Can Be Made Virtually Harmless.
W77-12336 1024 5D

Study of the Influence of Electrocoagulation Conditions on the Efficiency of Pulp and Paper Mill Effluent Purification (Izuchenie vliyaniya uslovii elektrokoagulyatsii na effektivnost' ochistki stochnykh vod tsellyulozno-bumazhnoi promyshlennosti),
W77-12338 1024 5D

Investigation of Combined Washing of the Sand Filter in the Purification of Kraft Mill Effluents (Issledovanie kombinirovannoi promyvki peschanogo fil'tra pri ochistke stokov sul'fat-tsellyuloznogo proizvodstva),
W77-12340 1024 5D

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

Application of Reverse Osmosis in the Pulp and Paper Industry,
W77-12342 1024 5D

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

Materials Balance and Pollution Load -- Example from the Pulp and Paper Industry (Bilan matieres et flux de pollution -- example de l'industrie de la pate a papier),
W77-12345 1024 5B

Studies on the Treatment of Spent Liquors from Mitsumata and Manila Hemp Pulping, (In Japanese),
W77-12348 1024 5D

Protozoa as Test Organisms for the Evaluation of the Properties of Effluents (Prosteishie mikroorganizmy kak test-ob''ekty dlya otsenki svoistv stochnykh vod),
W77-12349 1024 5A

Sorption of Soluble Components of Pulp and Paper Industry Effluents by Activated Sludge (Zakonomernosti sorbtsii rastvorennykh komponentov stochnykh vod ts(ellyulozno-)b(umazhnoy) p(romyshlennosti) aktivnym ilom),
W77-12350 1024 5D

Selection of Parameters for Process Control of Biological Purification of Kraft Mill Effluents (Vybor kanalov upravleniya protsessom biologicheskoi ochistki stochnykh vod sul'fattsellyuloznogo proizvodstva),
W77-12351 1024 5D

Effect of a Surface-Active Agent on the Biological Purification of Industrial Effluents (Vliyanie poverkhnostnoaktivnogo veshchestva na protsess biologicheskoi ochistki promstokov),
W77-12352 1024 5D

Effect of Department Discharges on the Chemical Purification of Industrial Effluent. Part 1. Discharge of a Yeast-Producing Plant -- Spent Fermentation Liquor (O vliyanii tsekhovykh stochnykh vod na protsess khimicheskoi ochistki promstokob. Soobshchenie 1. Stok drozhzhevogo proizvodstva -- posledrozhzhevaya brazhka),
W77-12353 1024 5D

Potentionmetric Determination of Microamounts of Sulfur Compounds in Kraft

PULP WASTES

Mill Effluents (Potentsiometricheskoe opredelenie mikrokolichestv sernistykh soedinenii v stochnykh vodakh sul'fattsellyuloznogo proizvodstva),
W77-12354 1024 5A

Characteristics of a Fluidized Bed and its Effect on the Course of the Flotation Process (Kharakteristika pennogo sloya i ego vliyanie na khod flotatsionnogo protsessa),
W77-12355 1024 5D

Pressurized Pipeline Transport of Effluent Sediments (K voprosu perekachki osadkov stochnykh vod po napornym truboprovodam),
W77-12356 1024 5D

Experimental Equipment for Cultivation of Activated Sludge Under Conditions of Constant Oxidation Potential (Eksperimental'naya ustanovka dlya kul'tivirovaniya aktivnogo ila v usloviyakh postoyanstva okislitel'nogo potentsiala),
W77-12357 1024 5D

Chemical Concentration by Adsorption,
W77-12360 1024 5D

Processing Changes and Closed Systems Designed for Minimum Effluent Discharge from the Manufacture of Paper Pulp (Processandringar och slutna system for att minska utslapp fran tillverkning av pappersmassa),
W77-12361 1024 5D

Treatment of Effluent from a Pulp and Paper Mill Through Ozone and the Activated Sludge Process (Die Behandlung des Abwassers einer Zellstoff- und Papierfabrik mittels Ozon und Belebtschlammverfahren),
W77-12362 1024 5D

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

PULPING

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

PULPMILL EFFLUENT

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

PULSATION RATES

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

PULSED IRRIGATION

The Pulsed Irrigation Principle for Controlled Soil Wetting,
W77-04770 1010 2G

PUMP FAILURE

Water Turbine Pump Failure,
W77-08656 1018 8G

PUMP TESTING

A Simple Computer Program for the Determination of Aquifer Characteristics from Pump Test Data,
W77-01337 1003 7C

Pump Handbook.
W77-04114 1009 8G

Free Pump Tests Save Millions of Dollars,
W77-04118 1009 8G

Pump Testing in Heterogeneous Aquifers,
W77-10764 1021 2F

Viscosity Effects of Sludge.
W77-11722 1023 5E

PUMPED STORAGE

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

An Investigation of Techniques to Expedite Synchronizing for Pump-Storage Units and Standby Generating Units,
W77-01686 1004 8C

The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Effects of Simulated Pumped Storage Operation on Northern Pike Fry, (In German),
W77-04590 1009 5C

Pumped Storage Optimization in Generation Systems,
W77-07525 1015 4A

Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

Pumped-Storage in the Pacific Northwest, An Inventory.
W77-08224 1017 2H

Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

Hydro-Electric Development of the Tugela River,
W77-10073 1020 8C

Influence of Pump Storage and Generation on Commercial Fisheries Potential of Reservoirs,
W77-11907 1023 5C

PUMPED STORAGE INVENTORIES

Pumped-Storage in the Pacific Northwest, An Inventory.
W77-08224 1017 2H

PUMPING

Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

Pumping Policies in Water Supply,
W77-01177 1003 4A

Energy Sources for Irrigation Pumps in Northwestern New South Wales,
W77-01274 1003 3F

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Differential-Head--Lake-Level Relationships in the Middle-Gulf Area, Florida,
W77-01922 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01929 1004 4B

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

Digital Ground-Water Model of the Ogallala Aquifer in Parts of Washington and Yuma Counties, Northern High Plains of Colorado,
W77-02991 1006 4B

Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

Optimal Pumping Regimes in an Unconfined Coastal Aquifer,
W77-04873 1010 4B

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Optimization of Water Pumping Costs by Hierarchical Methods,
W77-05245 1011 6C

Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Getting Water from the Sun,
W77-05937 1012 3F

Hydraulics and Economics of Well Field Layout.
W77-06863 1014 8B

Tables and Type Curves for Analysis of Pump Tests in Leaky Parallel-Channel Aquifers,
W77-06941 1014 4B

Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

E.L.C. Water Development Project, Betul (M.P.) India: Fifth Annual Report, 1975-1976,
W77-07696 1016 8B

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Today's Windmills: A Blend of Old and New,
W77-08650 1018 8C

Land Subsidence,
W77-08653 1018 4B

Pumping Tests Provide Useful Data,
W77-08658 1018 8G

Liquid Jet Eductors, The 'Pumps' with No Moving Parts,
W77-08671 1018 8C

Selection of Slurry Pumps for Severe Applications,
W77-08673 1018 8C

Avoiding the Perils of Cavitation,
W77-08674 1018 8C

Simulations of Water-Level Drawdowns in Proposed Well-Field Areas, Dade County, Florida,
W77-08739 1018 4B

Ground-Water Data for Michigan, 1975,
W77-08753 1018 7C

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

Validation of an Axisymmetric Pseudo-Unconfined Time-Variant Digital Model,
W77-09112 1019 2F

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

Flow Conditions at Pumping Stations, Cairo, Illinois; Hydraulic Model Investigation,
W77-10043 1020 8B

Here Comes the Sun.
W77-10518 1021 8C

Pumping Tests Provide Useful Data, Part II,
W77-10530 1021 8B

High Service Water Pumping Station,
W77-10545 1021 5F

Design and Performance of a Simple Solar Pump for Lift Irrigation Purposes,
W77-11086 1022 3F

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Development of a Solar Pump for Lift Irrigation Purposes,
W77-11428 1022 3F

Arizona Pump Water Budgets, 1977. (Maricopa, Pima, Pinal, Cochise and Greenlee Counties),
W77-11431 1022 8C

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

Theoretical Drawdown Due to Simulated Pumpage from the Ohio River Alluvial Aquifer Near Siloam, Kentucky,
W77-12379 1024 4B

Pumping Tests Provide Useful Data: Part 3,
W77-12683 1024 8G

PUMPING COSTS

Free Pump Tests Save Millions of Dollars,
W77-04118 1009 8G

PUMPING PLANTS

Construction of Goscote Sewage Pumping Station,
W77-02326 1005 8C

The Design and Construction of a Screening and Pumping Station and an Outfall for the Disposal of Sewage from Brighton and Hove,
W77-02331 1005 5E

Sewage Pumping Station Built to Handle Future System Demands,
W77-08550 1017 8C

Analysis of Economic Sewage Lift Station Design,
W77-09906 1020 8C

Submersible Pumps Speed Sewage Flow,
W77-10587 1021 5D

Arizona Pump Water Budgets, 1977. (Maricopa, Pima, Pinal, Cochise and Greenlee Counties),
W77-11431 1022 8C

McAlpine Win Effluent Treatment Works Contracts.
W77-11667 1023 5D

Water Pollution Abatement Program Serves Independence, Missouri,
W77-12432 1024 5D

North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

PUMPING TEST DATA

Pumping Tests Provide Useful Data,
W77-08658 1018 8G

PUMPING TESTS

Pumping Tests Provide Useful Data: Part 3,
W77-12683 1024 8G

PUMPKINSEED

Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

Seasonal changes in the Respiration of Pumpkinseed, Lepomis Gibbosus, Correlated with Temperature, Day Length, and Stage of Reproductive Development,
W77-06768 1014 5C

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

PUMPKINSEED (FISH)

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

PUMPS

Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

Evaluation of Effectiveness of Reservoir Destratification,
W77-01821 1004 5G

Physiochemical and Biological Conditions in Two Oklahoma Reservoirs Undergoing Artificial Destratification,
W77-03208 1007 2H

Large Factory-Built Pump Station Begins Operation.
W77-03438 1007 8C

Pump Handbook.
W77-04114 1009 8G

A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

Considerations for Electrical Design in Sewage Lift Stations,
W77-04706 1010 8C

Flame Spraying Reduces Pump Leakage at Waste Water Treatment Plant.
W77-06101 1013 8C

Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

It's All on the Nameplate: Everything You Always Wanted to Know About Jet Pumps,
W77-06854 1014 8C

Pumping Systems: The Simpler, The Better,
W77-06856 1014 8C

Submersible Pump Design: Dependent on Well Diameter and Depth.
W77-06867 1014 8C

How to Deal with Pitting and Corrosion.
W77-06869 1014 8G

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

Installation Tips on Large Submersibles,
W77-07289 1015 8C

Parameter Study of Variables Affecting the Performance of a Hydraulic Pipeline Dredge Model,
W77-07346 1015 8D

NWWA Ground Water Heat Pump Research Imperatives,
W77-07692 1016 8C

Research Foundation Utilizes Ground Water Heat Pumps,
W77-07693 1016 8C

Ground Water Energy and the Ground Water Heat Pump,
W77-07694 1016 8C

E.L.C. Water Development Project, Betul (M.P.) India: Fifth Annual Report, 1975-1976,
W77-07696 1016 8B

Pumping Systems: Part II,
W77-07704 1016 8C

It's Your Loss,
W77-08319 1017 8G

Sewage Pumping Station Built to Handle Future System Demands,
W77-08550 1017 8C

Aerobic Treatment of Liquid Wastes--With Oxygen Concentration Measured and Used to Control Pump Speed Used to Force Liquid Through Venturis.
W77-08557 1017 5D

Water Turbine Pump Failure,
W77-08656 1018 8G

Liquid Jet Eductors, The 'Pumps' with No Moving Parts,
W77-08671 1018 8C

Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

Selection of Slurry Pumps for Severe Applications,
W77-08673 1018 8C

Pump Construction Materials,
W77-08675 1018 8G

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

Gear Motor Solves Plant's Noise Problem.
W77-09827 1020 8C

Design Proposals for Submersible Sewage Lift Stations,
W77-09839 1020 8C

Submersible Pumps Speed Sewage Flow,
W77-10587 1021 5D

Design and Performance of a Simple Solar Pump for Lift Irrigation Purposes,
W77-11086 1022 3F

Keep Maintenance in Mind When Designing or Using Pumps.
W77-11488 1022 5D

Axial-Flow Pumps for Deep Waters.
W77-11550 1023 8C

Viscosity Effects of Sludge.
W77-11722 1023 5E

Impeller Design Keeps Down Pump Set Maintenance.
W77-12439 1024 8C

North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

Feasibility of Using Solar Energy to Drive Irrigation Pumps,
W77-12513 1024 3F

Line Power Variations Cause Pump Motor Problems,
W77-12666 1024 8C

Choosing the Right Cable for the Right Job.
W77-12671 1024 8C

PUNCTURE RESISTANCE
Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

PURE WATER
Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

PURE WATER PROPERTIES
Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

PURPLE HERON
Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

PYLODICTUS OLIVARIS
Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

PYRAMID LAKE (NEV)
Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

PYRAMID LAKE PROJECT
Final Report on The Pyramid Lake Pilot Project, 1970-1975, Volume 1, Text of Report,
W77-07566 1015 3B

Final Report on the Pyramid Lake Pilot Project, 1970-1975, Volume 2, Appendices,
W77-07567 1015 3B

PYRETHRIN
Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

PYRETHROIDS
Toxicity of Pyrethoids to Juvenile Atlantic Salmon,
W77-11305 1022 5C

PYRIDINE
Determination of Pyridine in Farm Crops and Fish, (In Russian),
W77-08126 1017 5A

PYRIDINES
The Barrier Role of Water Treatment Installations with Respect to Certain Heterocyclic Compounds, (In Russian),
W77-02240 1005 5F

PYROLYSIS
Pyrolysis of Sewage Sludge,
W77-00024 1001 5E

Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

Addition of Phosphorus Salts to Effluents (Dobavlenie solei fosfora v stochnye vody),
W77-01646 1004 5D

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

Sewage Sludge Treatment System,
W77-03487 1007 5D

Gas from Sewage, Sludge Pyrolysis Energy Source Says California Study.
W77-06118 1013 5D

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Use of Pyrolysis/Gas-Chromatography in Analyzing Low-Volatility Organic Water Pollutants (Die Anwendung der Pyrolyse-Gaschromatographie zur Analytik von schwerluechtigen organischen Wasserinhaltsstoffen),
W77-12363 1024 5A

PYROPHOSPHATES
Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

Tripolyphosphate and Pyrophosphate Hydrolysis in Sediments,
W77-10285 1021 5B

PYRROPHYTA
Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

QUAHOG CLAM
Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

QUAIACOL
Effect of a Pulp and Paper Mill Effluent on the Productivity of Periphyton and Phytoplankton,
W77-11328 1022 5C

QUALITATIVE MODEL
A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

QUALITY CONTROL
Evaluating Environmental Quality Management Programmes in Which Dischargers are Grouped,
W77-01170 1003 5G

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

Institutions and Objectives on the Water, Energy, Environment Interface,
W77-03934 1008 6B

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

A Specific Conductance Method for Quality Control in Water Analysis,
W77-05453 1011 2K

Interlaboratory Quality Control Studies Nos. 12 and 13, Aluminum, Cadmium, Chromium, Cobalt, Copper, Lead, Iron, Manganese, Nickel and Zinc,
W77-07616 1016 5A

QUANTITATIVE MODEL
A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

QUANTITATIVE MODELS
The Distribution of Natural and Anthropogenic Elements and Compounds in Precipitation Across the U.S.; Theory and Quantitative Models,
W77-06675 1014 2B

QUARKEN STRAIT (FINLAND)
Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

QUASI-PUBLIC GOODS
Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

QUATERNARY PERIOD
Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

QUEBEC
Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Nitrates in Some Soil-Water Systems in Quebec, (In French),
W77-07858 1016 5B

QUEENSLAND
Frequency Analysis of Flood Data in Queensland (Australia),
W77-00936 1002 4A

QUERY LANGUAGE
OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

QUERY PROCESSOR
Observations on a Generalized Intelligent Query Processor for Decision Support,
W77-07849 1016 6A

QUIESCENT CONDITIONS
Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

QUIET TITLE
State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

QUILLAJA SAPONARIA
Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

QUINALDINE SULPHATES
Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

QUINAULT INDIAN RESERVATION (WASH)
The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

QUINONES
Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

R-INDEX METHOD
Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

RACCOON
Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

RACCOONS
Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

RADAR
On Polarization Features of Radio Signals Scattered from the Sea Surface at Small Grazing Angles,
W77-01620 1004 2L

Radar Imaging of Ocean Surface Patterns,
W77-01932 1004 2L

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

Guidelines for Flash Flood and Small Tributary Flood Prediction,
W77-03114 1007 4A

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Radar-Gage Precipitation Measurements During the IFYGL,
W77-05130 1011 2H

Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

Deduction of Ice Particle Types in the Vicinity of the Melting Layer from Doppler Radar Measurements,
W77-09720 1020 2B

A Hydrometeorological Research Program,
W77-10658 1021 2B

Rain Resulting from Melting Ice Particles,
W77-11597 1023 2B

Precipitation Mapping with an Airborne Synthetic Aperture Imaging Radar,
W77-12804 1024 2B

RADAR ECHO DISTRIBUTIONS
Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

RADAR IMAGERY
Radar Imaging of Ocean Surface Patterns,
W77-01932 1004 2L

RADARS
A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

RADFORD ARMY AMMUNITION PLANT
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

RADIAL FLOW
Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

RADIANCE
Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

RADIANT ENERGY
Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

RADIANT FLUX
Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

RADIATION
High Energy Radiation in Sludge Treatment - Status and Prospects,
W77-00022 1001 5D

A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

Radiation Hazard from Americium-Beryllium Neutron Moisture Probes,
W77-01324 1003 2G

Stochastic Structure of Cloud and Radiation Fields,
W77-01640 1004 2B

Purification of Pulp and Paper Mill Effluents by Radiation Polymerization. I. Purification with the Use of Methyl Methacrylate (Ochistka stochnykh vod predpriyatii tsellyulozno-bumazhnoi promyshlennosti metodom radiatsion-

noi polimerizatsii. I. Ochistka s primeneniem metilmetakrilata),
W77-01655 1004 5D

On a Derivable Formula for Long-Wave Radiation from Clear Skies,
W77-03638 1008 2B

Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

Effects of Radiation on Aquatic Populations,
W77-04509 1009 5C

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Measurement of the Attenuation of Electromagnetic Radiation by Water in the Visible Region of the Spectrum,
W77-08293 1017 1A

Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

Experimental Determination of the Radio Emission of the Underlying Surface on Lambda = 2.1 CM,
W77-10322 1021 7B

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

RADIATION ABSORPTION

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

RADIATION DATA

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

RADIATION HAZARDS

Radiation Hazard from Americium-Beryllium Neutron Moisture Probes,
W77-01324 1003 2G

RADIATION TECHNIQUES

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

RADIO

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

RADIO-CHEMICAL ANALYSIS

Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

RADIO-ECHO

Radio-Echo Power Profiling,
W77-05430 1011 2C

RADIO-ECHO SOUNDING

Radio-Echo Sounding of Temperate Glaciers: Ice Properties and Sounder Design Criteria,
W77-08229 1017 2C

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

RADIO WAVES

On Polarization Features of Radio Signals Scattered from the Sea Surface at Small Grazing Angles,
W77-01620 1004 2L

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

Remote Sensing of Snowpack Density Using Shortwave Radiation,
W77-10685 1021 2C

RADIOACTIVE DATING

U S Geological Survey, Water Resources Division, Radiocarbon Measurements I,
W77-08169 1017 4B

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

RADIOACTIVE MERCURY

Investigations on the Simultaneous Uptake and Release of Mercury by Dunaliella Tertiolecta,
W77-12014 1023 5C

RADIOACTIVE POLLUTION

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

RADIOACTIVE WASTE DISPOSAL

Conditioning Highly Radioactive Solidified Waste,
W77-01233 1003 5D

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Results of R/V Yaquina Cruise Yaloc-74, Leg 3: Seabed Disposal Program, North Pacific Study Area MPG-2, 33 degrees 20'N, 151 degrees 00'W, Nov. 30 - Dec. 21, 1974,
W77-07739 1016 5E

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

International Law and Radioactive Pollution by Ocean Dumping: 'With All Their Genius and With All Their Skill...'
W77-08957 1018 5G

Storage of Low-Level Radioactive Wastes in the Ground: Hydrogeologic and Hydrochemical Factors,
W77-09086 1018 5E

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Investigation of Radioactive Waste Disposal at Deepwater Dumpsite 106--Sampling Program May 1974,
W77-09246 1019 5B

Archibenthic and Abyssobenthic Fishes of Deepwater Dumpsite 106 and the Adjacent Area,
W77-09253 1019 5C

Environmental Impacts of High Level Radioactive Waste Disposal,
W77-09473 1019 5C

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

An Analysis of Criteria for Determining the Extent of Permissible Radioactive Waste Disposal from Nuclear Power Stations into River Systems,
W77-10413 1021 5C

The Supreme Court Interprets the Role of the Environmental Protection Agency in Regulating Radioactive Materials,
W77-10455 1021 6E

RADIOACTIVE WASTES

Train V Colorado Public Interest Research Group, Inc. (Conflict of Federal Water Pollution Control Act and the Atomic Energy Act).
W77-00987 1002 6E

Method and Apparatus for the Purification of a Liquid Contaminated with Radioactive Substances,
W77-01216 1003 5D

Conditioning Highly Radioactive Solidified Waste,
W77-01233 1003 5D

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

International Law and Radioactive Pollution by Ocean Dumping: 'With All Their Genius and With All Their Skill...'
W77-08957 1018 5G

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

New Opportunities for State Participation in the Control of Radioactive Pollution,
W77-09539 1019 5G

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

Impacts of Nuclear Releases into the Aquatic Environment.
W77-10384 1021 5C

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

An Analysis of Criteria for Determining the Extent of Permissible Radioactive Waste Disposal from Nuclear Power Stations into River Systems,
W77-10413 1021 5C

A System of Radiation Monitoring, and Methods and Equipment for Measuring Water of Low Specific Activity,
W77-10414 1021 5B

Numerical Modeling of Subsurface Radioactive Solute Transport from Waste-Seepage Ponds at the Idaho National Engineering Laboratory,
W77-10570 1021 5B

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

RADIOACTIVE WASTES DISPOSAL

Release Pathways for Deep Seabed Disposal of Radioactive Wastes,
W77-10417 1021 5B

RADIOACTIVE WELL LOGGING

Open-Hole Porosity Logs Can Be Used in Cased Holes,
W77-07698 1016 8G

RADIOACTIVITY

On Radioactive Waste Management: An Analysis of the Parameters Controlling Subsurface Contaminant Transfer,
W77-00551 1002 5B

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

Vertical Distribution of Strontium-90 and Cesium-137 in Bottom Deposits of Rivers and Lakes, (In Russian),
W77-01560 1004 5B

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

Radioecological Study of Charophyta, (In Russian),
W77-04068 1008 5C

Thyroid Modifications in Rats after Administration of Mineral Residue from Drinking Water, (In French),
W77-04089 1008 5C

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

Mathematical Models of Strontium-90 Behavior in 'Water-Fresh Water Fish Spawn' System for Particular Cases of Radioactive Contamination of Reservoirs, (In Russian),
W77-07539 1015 5C

Health Criteria for Estimating Acceptable Contamination of Coastal Waters By Radionuclides,
W77-10408 1021 5B

Dose Estimation and Prediction of Radiation Effects on Aquatic Biota Resulting from Radioactive Releases from the Nuclear Fuel Cycle,
W77-10409 1021 5C

Biochemical and Physiological Changes in Egyptian Nile Fish Subjected to Varying Levels of Gamma Irradiation,
W77-10412 1021 5C

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

RADIOACTIVITY EFFECTS

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
W77-00412 1001 6G

On Radioactive Waste Management: An Analysis of the Parameters Controlling Subsurface Contaminant Transfer,
W77-00551 1002 5B

The Dosimetric Implications of Releases to the Aquatic Environment from the Nuclear Power Industry,
W77-04511 1009 5C

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

Environmental Impacts of High Level Radioactive Waste Disposal,
W77-09473 1019 5C

Preliminary Investigations in Water Treatment with High Energy Electron Beams,
W77-10614 1021 5D

RADIOACTIVITY TECHNIQUES

The Colloidal Nature of Radionuclides in Seawater,
W77-04514 1009 5B

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

RADIOACTIVITY TRANSFER

On Radioactive Waste Management: An Analysis of the Parameters Controlling Subsurface Contaminant Transfer,
W77-00551 1002 5B

RADIOCHEMICAL ANALYSIS

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

RADIOCHEMICAL TESTING

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

RADIOECOLOGY

Radioecological Study of Charophyta, (In Russian),
W77-04068 1008 5C

Stable Elements of Radioecological Importance in Certain Echinoderm Species,
W77-06640 1014 5A

Estimation and Evaluation of Radioactive Contamination Through a Food Web in an Aquatic Ecosystem: I. An Application of the Compartment Model to Transfer of Radioactive Substances Through a Food Chain,
W77-08695 1018 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

RADIOGRAPHY

Studies on the Distribution of 14 C Labelled PCB in the Body. II. the Distribution in Gold Fish (Carrasius Auratus), (In Japanese),
W77-05488 1011 5C

RADIOISOTOPES

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

Method of Evaluating the Content of Natural Radioactive Isotopes of the Uranium and Thorium Series in Drinking Water and Food, (In Russian),
W77-02070 1004 5C

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Radiocesium Transport in the Hudson River Estuary,
W77-04512 1009 5B

Plutonium-237 and -246: Their Production and Use as Gamma Tracers in Research on Plutonium Kinetics in an Aquatic Consumer,
W77-04513 1009 5C

The Colloidal Nature of Radionuclides in Seawater,
W77-04514 1009 5B

Measurements for Modeling Radionuclide Transfer in the Aquatic Environment,
W77-04515 1009 5B

A Systems Analysis Model for Calculating Radionuclide Transport Between Receiving Waters and Bottom Sediments,
W77-04516 1009 5B

The Behavior of Plutonium Nuclides in the Irish Sea,
W77-04518 1009 5C

Transuranic Studies in the Marine Environment,
W77-04521 1009 5C

Toward a Global Monitoring Program for Transuranics and Other Marine Pollutants,
W77-04522 1009 5C

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Particulate Transport of Radionuclides 14C and 55Fe to Deep Waters in the Pacific Ocean,
W77-06902 1014 5B

Application of Digital Modelling to the Prediction of Radioisotope Migration in Groundwater,
W77-06981 1014 5B

A New Method for Physical Limnology--Tritium-Helium-3 Ages--Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

Plutonium in the Laurentian Great Lakes: Comparison of Surface Waters,
W77-07449 1015 5C

Interim Primary Drinking Water Regulations: Promulgation of Regulations on Radionuclides.
W77-08985 1018 5G

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

Plutonium and Americium Activities in the North Sea and German Coastal Regions,
W77-10122 1021 5B

Etude de L'influence du Cadmium Stable sur le Transfert du Zinx-65 en Ecosysteme Irrigue par Submersion (Riziere Irriguee), (Study of the Influence of Stable Cadmium on the Transfer of Zinc-65 in an Ecosystem Irrigated by Submersion (Irrigated Rice Field),
W77-10387 1021 5C

Behavior of Discharged Radionuclides from Fuel Reprocessing Operations in the Aquatic Environment of Bombay Harbour Bay,
W77-10403 1021 5C

Concentration of Radioactive Cobalt by Seaweeds in the Food Chain,
W77-10404 1021 5B

Transport and Accumulation of Radiocobalt in the Marine Sediment of Urazoko Bay,
W77-10405 1021 5B

Radiocaesium Dynamics in a Contaminated Floodplain Ecosystem in the Southeastern United States,
W77-10406 1021 5C

Release Pathways for Deep Seabed Disposal of Radioactive Wastes,
W77-10417 1021 5B

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Development of Plankton Organisms of an Eutrophic Reservoir and their Interaction with a Radioactive Environment, (In Russian),
W77-11020 1022 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

Distribution of Plutonium-237 in a Littoral Freshwater Microcosm,
W77-11530 1023 5B

Aluminum-26 in Deep-Sea Sediment,
W77-11538 1023 5B

Radioisotope Techniques in Delineation of the Environmental Behavior of Cadmium,
W77-11541 1023 5B

Absorption and Accumulation of 32P by Oedogonium and Some Aquatic Macrophytes,
W77-11569 1023 5A

Radioactivity in Mississippi River Water,
W77-11641 1023 5A

Plutonium-237: Comparative Uptake in Chelated and Non-Chelated Form by Channel Catfish (Ictalurus Punctatus),
W77-11642 1023 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

Experimental Modeling and Mathematical Description of Radionuclide Metabolism in the System 'Aqueous Medium-Hydrobionts', (In Russian),
W77-12993 1024 5B

RADIOLOGICAL POLLUTANT MONITORING

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

RADIOMETER

Experimental Determination of the Radio Emission of the Underlying Surface on Lambda = 2.1 CM,
W77-10322 1021 7B

RADIOMETRIC COLIFORM ASSAYS

Problems with Radiometric Coliform Assays,
W77-09514 1019 5A

RADIOMETRY

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

RADIONUCLIDE LEVELS

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

RADIONUCLIDES

Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Health and Ecological Aspects of Cobalt-60 Transfer in Seawater Food Chain Typical of an Intertidal Mud-Flat,
W77-10257 1021 5C

RADIOSIOTOPES

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

RADIOSONDES

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

RADIUM

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

RADIUM-226

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

RADIUM RADIOISOTOPES
Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

Interim Primary Drinking Water Regulations: Promulgation of Regulations on Radionuclides.
W77-08985 1018 5G

RADIUM REMOVAL
Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

RAFT CULTURE
The Feasibility of Oyster Raft Culture in East Coast Estuaries,
W77-04559 1009 2L

RAFT RIVER VALLEY (IDAHO)
Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

Impact of Legal Constraints on Ground-Water Resource Development in Idaho,
W77-10173 1021 6E

RAILROADS
Sanitary-Hygienic Evaluation of the Recycled Water Supply on Railroads, (In Russian),
W77-02241 1005 3E

Ogle V Terminal Railroad Association of St. Louis (Flooding Damages from Railway's Inadequate Culvert Openings).
W77-04385 1009 6E

Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

RAIN
An Evaluation of Precipitation pH Data from the Washington, DC Area Collected During 1975,
W77-01703 1004 2B

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Asbestos in Potable Water,
W77-06016 1012 5A

The Pastoral Zone--Reprieved,
W77-06231 1013 2B

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

Laboratory Investigation of Rainfall Retention and Transmission in Fresh Snow,
W77-09322 1019 2B

Effective Precipitation of Various Application Depths,
W77-10168 1021 3F

Study of a Heavy Precipitation Occurrence in Redding, California,
W77-11050 1022 2B

RAIN FORESTS
A Comparison of Environments of Rain Forests in Dominica and Puerto Rico,
W77-10988 1022 2G

RAIN GAGES
The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

The Resultant Direction and Inclination of Rainfall at Taita Experimental Station, New Zealand,
W77-01133 1003 2B

The Resultant Direction and Inclination of Rainfall at Arahura, Wairarapa, New Zealand,
W77-01134 1003 2B

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Precipitation on Intermountain Rangeland in the Western United States,
W77-02179 1005 2B

Optimal Raingage Densities and Accumulation Times: A Decision-Making Procedure,
W77-02798 1006 2B

Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

Determination of Storm Velocities as an Aid to the Quality Control of Recording Raingauge Data,
W77-05146 1011 2B

Digital Raingage Recorder,
W77-07172 1015 2B

The Measurement of Rainfall at Ground Level,
W77-08061 1016 2B

RAIN RETENTION BASINS
Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

RAIN WATER
Organic Matter in Atmospheric Precipitation in the Voronezh Region, (In Russian),
W77-01249 1003 5B

Water Wheel All Season Rain Gage,
W77-01753 1004 7B

Composition of Selected Rain Samples Collected at Menlo Park, California in 1971,
W77-05754 1012 7C

RAINBOW TROUT
The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Experimental Nitrite Toxicity in Rainbow Trout and Chinook Salmon,
W77-02581 1006 5C

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Relation of Water Temperature to Flexibacter Columnaris Infection in Steelhead Trout (Salmo Gairdneri) Coho (Oncorhynchus Kisutch) and Chinook (O. Tshawytscha) Salmon,
W77-03048 1006 5C

Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo Gairdneri,
W77-03184 1007 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Mineral Metabolism During the Ontogenesis of Rainbow Trout (Salmo Gairdneri),
W77-04039 1008 5C

The Effect of Ammonia Exposure on Gill Structure of the Rainbow Trout (Salmo Gairdneri),
W77-04056 1008 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Growth of Salmonid Fishes from Heated and Unheated Areas of Lake Michigan-Measured by RNA-DNA Ratios,
W77-05554 1011 5C

Behavioral Thermal Regulation by Rainbow Trout in a Temperature Gradient,
W77-05568 1011 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Morphology and Function of the Lateral Line of Juvenile Steelhead Trout in Relation to Gas Bubble Disease,
W77-05766 1012 5C

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Report to Corps of Engineers, 1973 Gas Supersaturation Research,
W77-05779 1012 5B

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Effects of Anaesthesia with MS222, Neutralized MS 222 and Benzocaine on the Blood Constituents of Rainbow Trout, Salmo Gairdneri,
W77-05904 1012 5C

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Movement of Rainbow Trout Across a Metalimnion Deficient in Dissolved Oxygen,
W77-06417 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Seasonal Changes in Hematology of Rainbow Trout, Salmo Gairdneri,
W77-07403 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

Acceleration of Sexual Maturation of the Rainbow Trout Salmo Gairdneri Rich. Under the Effect of an Elevated Water Temperature, (In Russian),
W77-10987 1022 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Malachite Green: Its Toxicity to Aquatic Organisms, Persistence and Removal with Activated Carbon,
W77-11311 1022 5C

Toxicity of Furanace to Fish, Aquatic Invertebrates, and Frog Eggs and Larvae,
W77-11312 1022 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

Assessment of the Acute Toxicity, Growth Impairment, and Flesh Tainting Potential of a Bleached Kraft Mill Effluent on Rainbow Trout (Salmo Gairdneri),
W77-11357 1022 5C

Serum Iron Level and Total Iron Binding Capacity in Culture Fish,
W77-11543 1023 5A

Effect of Shock Exposures of Chlorine on the Plasma Electrolyte Concentrations of Adult Rainbow Trout (Salmo gairdneri),
W77-12031 1023 5C

Hypolimnion Oxygenation and its Effects on the Depth Distribution of Rainbow Trout (Salmo Gairdneri) and Gizzard Shad (Dorosoma Cepedianum),
W77-12191 1023 5C

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

Sulfate Saline Water and Its Influence on Selected Aquatic Vertebrates,
W77-12259 1024 3C

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

RAINBOW TROUT FRY

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

RAINDROP BREAKUP

Evolution of Raindrop Spectra with Collision-Induced Breakup,
W77-02489 1005 2B

RAINDROP SCAVENGING

An Electron Microscopy Study of Particulates Present in Individual Raindrops,
W77-11821 1023 2B

RAINDROPS

Evolution of Raindrop Spectra with Collision-Induced Breakup,
W77-02489 1005 2B

Splash Erosion of Primary Particles and Aggregates,
W77-09288 1019 2J

Acceleration to Terminal Velocity of Cloud and Raindrops,
W77-09719 1020 2B

A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

Cloud Condensation Nucleus Size Distributions and Their Effects on Cloud Droplet Size Distributions,
W77-10125 1021 2B

Rain Resulting from Melting Ice Particles,
W77-11597 1023 2B

An Electron Microscopy Study of Particulates Present in Individual Raindrops,
W77-11821 1023 2B

RAINFALL

Stochastic Considerations in Thunderstorm Modeling,
W77-00087 1001 2B

Medium Term Fluctuations of Rainfall in Southeastern England,
W77-00092 1001 2B

State of South Carolina Weather and Crop Summaries,
W77-00282 1001 3F

The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

A Study of Maximum Values of Within-Storm Rainfall,
W77-01127 1003 2B

Generalized Relationship Between Maximum Rain Depth, Area and Return Period for Major Rainstorms,
W77-01131 1003 2B

The Resultant Direction and Inclination of Rainfall at Taita Experimental Station, New Zealand,
W77-01133 1003 2B

The Resultant Direction and Inclination of Rainfall at Arahura, Wairarapa, New Zealand,
W77-01134 1003 2B

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Rainfall and Floods in India during 1973 Southwest Monsoon Period,
W77-01329 1003 2B

Cloud Interaction and the Formation of the 15 June 1973 Tornado in the FACE Mesonetwork,
W77-01700 1004 2B

Twenty-Six-Year Cyclical Distribution of Drought and Flood in Ceara, Brazil,
W77-01897 1004 2B

Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

An Examination of the Reliability of Short Term Records in Precipitation Variability Studies,
W77-01904 1004 2B

Precipitation on Intermountain Rangeland in the Western United States,
W77-02179 1005 2B

A Technique for Estimating Tropical Open-Ocean Rainfall from Satellite Observations,
W77-02484 1005 2B

Silver Content of Precipitation from Seeded and Nonseeded Florida Cumuli,
W77-02485 1005 2K

Urban Drainage Model Comparison for a Catchment in Halifax, Nova Scotia,
W77-02764 1006 2A

Optimal Raingage Densities and Accumulation Times: A Decision-Making Procedure,
W77-02798 1006 2B

1976 Environmental Conditions Relative to Shrimp Production in Coastal Louisiana,
W77-02876 1006 5C

Rainfall in the Seychelles 1941 to 1970,
W77-03096 1007 2B

Guidelines for Flash Flood and Small Tributary Flood Prediction,
W77-03114 1007 4A

Physiological Responses to Rainfall in Opuntia Basilaris (Cactaceae),
W77-03622 1008 2I

A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

GATE Convection Subprogram Data Center: Shipboard Precipitation Data,
W77-04196 1009 2B

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

Boron in Coastal North Florida Rainfall,
W77-05152 1011 2K

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

An Evaluation of the Practicality and Complexity of Some Rainfall and Runoff Time Series Models,
W77-05179 1011 2A

Network Design for the Estimation of Areal Mean of Rainfall Events,
W77-05194 1011 2B

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

Critical Duration of Rainfall for Flood Estimation,
W77-05342 1011 2B

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

Rainfall Results, 1970-1975: Florida Area Cumulus Experiment,
W77-05975 1012 3B

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Multistation, Multiyear Synthesis of Hydrologic Time Series by Disaggregation,
W77-06008 1012 2A

Final Report on Fertilizer Movement Through Soil Resulting from Rainfall,
W77-06096 1012 5B

The Pastoral Zone--Reprieved,
W77-06231 1013 2B

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

Area-Depth Relations for Frequency Values of Rainfall,
W77-06647 1014 2B

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

Time-Distribution of Storm Rainfall in Pennsylvania,
W77-07022 1014 2B

The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Dynamics of Climatic Hazards in Northeast Brazil,
W77-07167 1015 2B

Estimating Above and Below Normal Rainfall Periods Over South Africa, 1972-2000,
W77-07170 1015 2B

Digital Raingage Recorder,
W77-07172 1015 2B

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

Simulation of a Series of Daily Areal Mean Rainfalls for a Basin Using Rainfall Observations at a Reference Station Located Outside the Basin,
W77-07356 1015 2B

Predictability of Effects of a Severe Local Storm in Pennsylvania,
W77-07369 1015 2B

Maximum 5-Minute and Hourly Rainfalls on Metromex Network, 1971-1975,
W77-07374 1015 2B

Deposition of Mineral Nitrogen by Rain in the Lamto Savanna, (In French),
W77-07574 1015 5B

Stochastic Analysis of Short-Time Rainfalls,
W77-07671 1016 2B

Runoff, Erosion, and Nutrient Movement from Interrill Areas,
W77-07766 1016 2J

Characteristics of the Severe Rainstorm,
W77-07784 1016 2B

The Measurement of Rainfall at Ground Level,
W77-08061 1016 2B

Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

Improving Food Crop Production in the Sudan Savanna Zone of Northern Nigeria,
W77-08459 1017 3F

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

Erosion Caused by Intense Rainfall in a Small Catchment in New York State,
W77-09134 1019 2J

Generalized Method for Evaluating Urban Storm Water Quality Management Storage/Treatment Alternatives,
W77-09188 1019 5D

The Operational Water Quantity Model,
W77-09204 1019 4A

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Laboratory Investigation of Rainfall Retention and Transmission in Fresh Snow,
W77-09322 1019 2B

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

Rainfall Trends in 80 Rainfall Districts of South Africa,
W77-10085 1020 2B

On the Application of Trend Surfaces of Precipitation to Mountainous Areas,
W77-10088 1020 2B

The Temporal Variation of Rainfall Runoff Over the Summer Rainfall Region of South Africa,
W77-10091 1020 2B

Seasonal Oceanic Precipitation Frequencies from Nimbus 5 Microwave Data,
W77-10105 1021 2B

Determination of Rainfall Distributions from Microwave Radiation Measured by the Nimbus 6 ESMR,
W77-10106 1021 2B

A Field Experiment on the Calibration of Radars with Raindrop Disdrometers,
W77-10112 1021 2B

A Satellite Technique for Quantitatively Mapping Rainfall Rates Over the Oceans,
W77-10113 1021 2B

Effects of Acid Precipitation on a Small Acid Lake in Southern Norway,
W77-10127 1021 5B

The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

Tritium in the Monitoring of Water Supply.
W77-10196 1021 2F

Expected Future Rainfall Over Selected Parts of South Africa,
W77-10198 1021 2B

Annual Rainfall Frequency Distributions for 80 Rainfall Districts in South Africa,
W77-10206 1021 2B

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

Variability and Error in Rainfall Over a Small Tropical Watershed,
W77-10769 1021 2B

Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

Acidity in Rainfall,
W77-11138 1022 5A

Storm Depth-Area Relations from Digitized Radar Returns,
W77-11226 1022 2B

Roof Drainage of Large Buildings in South Africa,
W77-11555 1023 3B

Rain Resulting from Melting Ice Particles,
W77-11597 1023 2B

Connections Between Climate and Desertification,
W77-11629 1023 2B

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

Optimal Prediction of Ponding,
W77-11798 1023 2G

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

Rainfall Parameters to Predict Surface Runoff Yields and Soil Losses from Selected Field-Plot Studies,
W77-11964 1023 2B

Effect of Rainfall-Excess Determination on Runoff Computation,
W77-11986 1023 2B

Short Period Fluctuations of New Zealand Rainfall,
W77-12001 1023 2B

Weekly Water Balances of Normal and Severe Drought Years at Dharwar,
W77-12332 1024 2B

Markov-Dependent Geometric Models for Weather Spells and Weather Cycles-A Study,
W77-12554 1024 2B

Areal Extent of Southwest Monsoon Droughts in India,
W77-12555 1024 2B

Severe Floods in Jammu and Kashmir in August 1973,
W77-12556 1024 2B

RAINFALL DISPOSITION

Statistical Models for Precipitation,
W77-00537 1002 2B

A Study of the Recurrence of Rainfall Deficiency in Relation to Rice Crop,
W77-00746 1002 3F

A Study of Hourly Rainfall Distribution Around Monsoon Depression Centre in Central India,
W77-01125 1003 2B

Diurnal Variation of Rainfall in Brahmaputra Valley,
W77-01126 1003 2B

Precipitation on Intermountain Rangeland in the Western United States,
W77-02179 1005 2B

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Prolonged Dry Spells at Bellary During the Southwest Monsoon Season,
W77-06242 1013 2B

Flash Floods in the Western Mediterranean (Les Crues Catastrophiques sur la Mediterranee Occidentale),
W77-08245 1017 2E

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

Stochastic Models for Precipitation,
W77-10180 1021 2B

Annual Rainfall Frequency Distributions for 80 Rainfall Districts in South Africa,
W77-10206 1021 2B

Storm Depth-Area Relations from Digitized Radar Returns,
W77-11226 1022 2B

RAINFALL DISTRIBUTION

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

RAINFALL EROSION

Protection of Slopes Against Rainfall Erosion,
W77-12561 1024 4D

RAINFALL FREQUENCY

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

RAINFALL INFILTRATION

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

RAINFALL INTENSITY

The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

Statistical Models for Precipitation,
W77-00537 1002 2B

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

A Record Arkansas Rainfall - The El Dorado Deluge,
W77-00897 1002 2B

Design Flood Synthesis by Excess Rain Routing,
W77-01452 1003 2A

Synthetic Design Hyetograph and Rational Runoff Coefficient,
W77-02135 1005 2E

Rainfall Erosivity Analysis of Soil Conservation Research Centre, Vasad(Gujarat),
W77-03627 1008 4D

Intensity of Rainfall in Clermone-Ferrand, (In French),
W77-04032 1008 2B

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

Introduction to Urban Stormwater Runoff Models,
W77-04735 1010 5B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-04736 1010 2E

The WRE Storm Model,
W77-04737 1010 5B

The EPA Stormwater Management Model,
W77-04738 1010 5B

Selected Case Studies Using Stormwater Management Models -- Quanitity aspects,
W77-04740 1010 2E

Comparative Analysis of Urban Stormwater Models,
W77-04743 1010 5B

The Measurement of 1 Min Rain Rates from Weighing Raingage Recordings,
W77-05438 1011 2B

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

The Effect of Rainfall Intensity on Storm Flow and Peak Discharge from Forest Land,
W77-09125 1019 2B

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

Study of a Heavy Precipitation Occurrence in Redding, California,
W77-11050 1022 2B

Soil Surface Sealing Caused by Rain Drop Impact,
W77-11107 1022 2G

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

A Physically-Based Model to Predict Runoff Under Variable Rain Intensity,
W77-12182 1023 4A

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

RAINFALL MAPS

Satellite-Derived Global Oceanic Rainfall Atlas (1973 and 1974),
W77-09693 1020 7C

RAINFALL NETWORK

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

RAINFALL OCCURRENCES

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

RAINFALL RATE

The Design of an Inexpensive Rain Gage with Both Amount and Rate Capabilities,
W77-00160 1001 2B

RAINFALL-RUNOFF MODELS

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

RAINFALL-RUNOFF RELATIONSHIPS

Comparison of Systems and Physical Hydrology Approaches to Hydrologic Modelling,
W77-00939 1002 2A

Statistical Sensitivity of Parameters in a Rainfall-Runoff Model,
W77-00948 1002 2A

Development of a Continuous Urban Rainfall-Runoff Model,
W77-00949 1002 2A

Kinematic Wave Theory Applied to Stormflow from a Mountain Catchment,
W77-00950 1002 4C

The Application of the Sacramento Rainfall Model to a Large Arid Catchment in Western Australia,
W77-00951 1002 2A

Rainfall Interception by Coo[illegible]-Desert Shrubs,
W77-01900 1004 3B

Rainfall Erosivity over Rho[illegible]esia.
W77-01901 1004 2J

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

Hydraulic Simulation Using Distributed Parameters,
W77-03001 1006 2A

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

Flood Studies Report.
W77-04244 1009 2A

Ogle V Terminal Railroad Association of St. Louis (Flooding Damages from Railway's Inadequate Culvert Openings).
W77-04385 1009 6E

Rainfall-Runoff Models,
W77-05010 1010 2A

A Variable Source Area Model of the Rainfall-Runoff Process Based on the Watershed Stream Network,
W77-05178 1011 2A

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Runoff and Erosion,
W77-06236 1013 4D

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

The Effects of Urbanization on Low Flows and Total Runoff,
W77-08335 1017 2A

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

Urbanization and Flooding - An Example,
W77-09161 1019 4C

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

Sensitivity of Some Runoff Models to Errors in Rainfall Excess,
W77-09339 1019 2A

A Mathematical Model for Urban Runoff,
W77-10434 1021 2A

Application of Conceptual Rainfall-Runoff Models in a Complex Program,
W77-10437 1021 2A

Chicago Cleanup: Industry Outdoes the City.
W77-10447 1021 6E

The Prediction of the Rainfall-Runoff Behavior in Urban Areas (Zur Prognose des Niederschlag-Abflussverhaltens in urbanen Einzugsgebieten),
W77-10581 1021 4A

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

Stochastic Point-Rainfall Simulation,
W77-11387 1022 2A

Prediction Models for Monthly Runoff,
W77-11437 1022 4A

Evaluating Weathering Characteristics of Water-Harvesting Catchments from Rainfall-Runoff Analyses,
W77-11612 1023 3B

Planning for Urban Stormwater Control,
W77-11669 1023 5G

Effect of Rainfall-Excess Determination on Runoff Computation,
W77-11986 1023 2B

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

Correlations Between Rain and Runoff Amounts and Composition in Eastern South Dakota,
W77-12308 1024 4A

Urban Runoff Characteristics: Volume I - Analytical Studies,
W77-12477 1024 5B

Role of Models in Urban Stormwater Management Planning,
W77-12491 1024 5G

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

RAINFALL SIMULATORS

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-08206 1017 2G

A Simulation of Smooth-Variable Intensity Rainfall Patterns,
W77-09337 1019 2B

A Portable Rainfall Simulator for Erodibility and Infiltration Measurements on Rugged Terrain,
W77-09441 1019 2J

A Physically-Based Model to Predict Runoff Under Variable Rain Intensity,
W77-12182 1023 4A

RAINFALL *SOIL EROSION

Rainfall Erosivity Analysis of Soil Conservation Research Centre, Vasad(Gujarat),
W77-03627 1008 4D

RAINFALL TRENDS

Trends and Periodicities of Rainfall in Sub-Divisions of Maharashtra State,
W77-00661 1002 2B

RAINFALL VARIATIONS

Rainfall Variations as Influenced by Wind and Topography,
W77-00647 1002 2B

RAINWATER

The Composition of Rainwater at Two Sites Near Townsville, Qld. (Australia),
W77-03279 1007 2K

RAINWATER MEASUREMENT

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

RAINWATER NITROGEN CONTENT

Nitrogen Content and Acidity of Rain on the Georgia Coast,
W77-05163 1011 5A

RAINY LAKE WATERSHED (MINN)

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

RAINY RIVER (MINN)

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

RAISIN RIVER (MICH)

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

RAJASTHAN

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects for Diversification,
W77-11628 1023 4D

RAJASTHAN (INDIA)

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

RAJASTHAN (INDIA) BRANCHING
Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

RAJASTHAN (SOILS)
Effect of the Quality of Irrigation Water on the Yield of Some Wheat (Triticum Aestivum) Varieties in a Sandy Soil of Rajasthan,
W77-06247 1013 3C

RAM RIVER GLACIER (CANADA)
Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 3. Ram River Glacier, Alberta - Summary of Measurements,
W77-12789 1024 2C

RAMAN EFFECT
Optical Remote Sensing of Water Pollutants,
W77-02192 1005 5A

RAMAN SPECTROSCOPY
Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

RAMGANGA DAM (INDIA)
Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

RAMROD
Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

RAMSEY COUNTY (N DAK)
Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

RANA TEMPORARIA
Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

RANCE ESTUARY (FRANCE)
Effect of Organic Excretion by Benthic Annelida on the Productivity of Phytoplankton,
W77-09660 1020 5C

RANCOCAS CREEK (NJ)
Flood Plain Information: Report on Rancocas Creek, Burlington County, NJ (Summary Report).
W77-00102 1001 4A

RANDOM DATA
Data Collection, Analysis and Instrumentation,
W77-10442 1021 2A

RANDOM FLOW
Multiple Markov Processes in Hydrology and Their Importance for Stochastic Analysis of Water Accumulation Problems,
W77-07684 1016 4A

RANDOM MODELS
Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

RANGE GRASSES
Influence of Temperature Regimes and Water Stress on the Germination of Three Range Grasses and its Possible Ecological Significance to a Shortgrass Prairie,
W77-04313 1009 3F

RANGE MANAGEMENT
Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Water Use on Rangelands,
W77-00846 1002 3B

Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

Desert Repaired in Southeastern Oregon: A Case Study in Range Management,
W77-03742 1008 4D

Influence of Temperature Regimes and Water Stress on the Germination of Three Range Grasses and its Possible Ecological Significance to a Shortgrass Prairie,
W77-04313 1009 3F

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

Grazing Systems and Watershed Management: A Look at the Record,
W77-05936 1012 4D

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding,
W77-05947 1012 4D

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Discriminating Coastal Rangeland Production and Improvements with Computer Aided Techniques,
W77-08410 1017 4A

Usefulness of LANDSAT Data for Monitoring Plant Development and Range Conditions in California's Annual Grassland,
W77-08411 1017 4A

Monitoring Vegetation Conditions from LANDSAT for Use in Range Management,
W77-08412 1017 4A

Potential of New Summer Grasses in Northland: I. Warm-Season Yields Under Dryland and Irrigation,
W77-08458 1017 3F

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

The Philip Equation: A Feasible Model for Infiltration Estimation on Small Rangeland Watersheds,
W77-12274 1024 2G

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

RANGES
Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

Precipitation on Intermountain Rangeland in the Western United States,
W77-02179 1005 2B

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

RANKING METHODOLOGIES
Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

RAPID CITY (SD)
A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

RAPPAHANNOCK ESTUARY (VA)
Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

RARE EARTH ELEMENTS
Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

RARE FISH SPECIES
Effect of Irrigation Pumping on Desert Pupfish Habitats in Ash Meadows, Nye County, Nevada,
W77-00427 1001 8I

RARITAN BAY (NY)
Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

RARITAN RIVER (NJ)
Delineation of Flood Hazard Areas: Flood Hazard Report No. 2, Raritan River.
W77-06953 1014 4A

RARITAN-SANDY HOOK BAY (NJ)
Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
W77-06505 1013 5A

RATES
Succession Rates in Lake Phytoplankton Communities,
W77-07442 1015 5C

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

RATES OF APPLICATION
A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

RATING CURVES
Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

RATIONAL RUNOFF COEFFICIENT
Synthetic Design Hyetograph and Rational Runoff Coefficient,
W77-02135 1005 2E

RAWINSONDE INSTRUMENTATION
Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

RAWINSONDES
IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

RAWSON LAKE WATERSHED (MANITOBA)
Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

RE-OXYGENATION RATES
A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

REACH (STREAMS)
General Scour and Fill Along a Stream Reach,
W77-10982 1022 8B

REACTION RATES
Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

READING (PA)
Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

REAERATION
Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Prediction Models of Reaeration Rate for Mountain Creeks,
W77-08501 1017 5G

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

Selecting the Proper Reaeration Coefficient for Use in Water Quality Models,
W77-09184 1019 5G

Effect of Wind and Rain on Surface Reaeration,
W77-10115 1021 2H

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

REAERATION CAPACITY
Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

REAERATION COEFFICIENT
Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

REAL ESTATE DEVELOPMENT
The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

REAL PROPERTY
Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

Water Rights and Liens.
W77-03499 1007 6E

Pearson V. City of Guttenberg (City's Procrastination in Developing Riverside Tract Give Private Adjacent Owner Title).
W77-06067 1012 6E

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

REAL PROPERTY LAW
Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

The Georgia Foreshore and State v Ashmore: The Legislative Giveth and the Judiciary Taketh Away,
W77-10457 1021 6E

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

Odom V Deltona Corporation (Non-Meandered Lakes in Florida are Presumed to Be Non-Navigable in the Absence of Evidence to the Contrary).
W77-10491 1021 6E

REAL-TIME DATA
The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

REARING SYSTEM
Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

REASONABLE USE
Hefferline V Langkow (Structural Rights of Adjacent Riparian Landowners),
W77-04930 1010 6E

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Recent Developments in the Recognition of Instream Uses in Western Water Law,
W77-06044 1012 6E

Farmers Investment Company V Bettwy (Doctrine of Reasonable Use as Applied to Groundwaters).
W77-08137 1017 6E

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

Almeda County Water District V Niles Sand and Gravel Company, Inc. (Use of Correlative Rights Doctrine to Defeat Claim of Inverse Condemnation),
W77-08991 1018 6E

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

RECESSION CURVES
Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

RECHARGE
Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

Ground Water Flow in Unconsolidated Formations,
W77-01763 1004 4B

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

Quantitative Evaluation of a Method for Estimating Recharge to the Desert Basins of Nevada,
W77-04878 1010 2F

Underground Reservoirs to Control the Water Cycle,
W77-12667 1024 2F

RECHARGE PONDS
Hydrodynamics of Perched Mounds,
W77-01141 1003 4B

RECHARGE TRENCHES
Profile Desaturation During Sediment Deposition in a Groundwater Recharge Trench,
W77-09115 1019 4B

RECHARGE WELL BATTERIES
Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

RECHARGE WELLS
Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

The Dashte-Naz Ground-Water Barrier and Recharge Project,
W77-05365 1011 4B

Pros and Cons of Storm Water Recharge Wells,
W77-06324 1013 5B

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

RECIRCULATED WATER
The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Meeting Water-Recycle Requirements at a Western Zero-Discharge Plant,
W77-12006 1023 5D

RECIRCULATING SYSTEMS
Nitrification in an Aquatic Recirculation System,
W77-05631 1012 5C

Effects of Parasiticides on Nitrification,
W77-05632 1012 5C

RECLAIMED WATER
Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Water-Reuse Systems Star at Cincinnati Aiche Meeting,
W77-00054 1001 5D

AWT Plant Begins Operations.
W77-00055 1001 5D

Ecologically Balanced Community Wastewater Disposal Systems Management for Developing Countries,
W77-00066 1001 5D

Wastewater Treatment by Reverse Osmosis,
W77-00081 1001 5D

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Reclaiming Water,
W77-00759 1002 5D

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

The Bacteriology of Power Station Effluent Used to Farm Marine Fish,
W77-01505 1003 5C

Laundering and Dry-Cleaning,
W77-02005 1004 5D

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

The Influence of the Raw Water Conditioning on the Working Data of a Reverse Osmosis Plant to Produce Ultra-Pure Water (Einfluss der Rohwasserkonditionierung auf Betriebsdaten einer Umkehrosmose-Anlage zu Reinstwassererzeugung),
W77-02355 1005 5D

Impact of Water Conservation in the Design of Modern Oil Refineries,
W77-02602 1006 5D

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

Inventory of Waste Water Production and Waste Water Reclamation in California 1973.
W77-04558 1009 5D

Reclamation of Water from Wastes in Southern California.
W77-04850 1010 5D

Recycling of Sewage Effluent by Irrigation: A Field Study on Oahu, Final Progress Report for August 1971 to June 1975.
W77-05372 1011 5D

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Ozonation of Reclaimed Water.
W77-06141 1013 5D

Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

Reclamation of Irrigation Field Drainage Water,
W77-11113 1022 5D

RECLAMATION
Urban Sludge Disposal or Utilization Alternatives, Socio-Economic Factors,
W77-00013 1001 5E

Sludge Management Alternatives for Coastal Cities,
W77-00014 1001 5E

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

Summary of the ASCE Seminar on Sludge Disposal,
W77-00020 1001 5D

Water-Reuse Systems Star at Cincinnati Aiche Meeting,
W77-00054 1001 5D

AWT Plant Begins Operations.
W77-00055 1001 5D

Recent Advances in Sludge Treatment and Disposal,
W77-00064 1001 5D

Ecologically Balanced Community Wastewater Disposal Systems Management for Developing Countries,
W77-00066 1001 5D

An Overview: So You Want to Recycle your Wastewater. How Should You Begin. Is it Feasible,
W77-00079 1001 5D

Sewage System with Reusable Flush Medium,
W77-00569 1002 5D

Treating Sewage and Recovering Usable Water and Solids,
W77-00578 1002 5D

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

A Systems Approach to the Economics of Waste Handling,
W77-00745 1002 5D

Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

Study on Treatment of Tanker Discharged Oily Water with Improved Type Slop Tank (Kairyogata suropu tanku ni yoru tanka haisui shori no kankyu),
W77-00750 1002 5G

Elimination of ZN from Wastewater of Rayon Plants by Precipitation,
W77-00757 1002 5D

Reclaiming Water,
W77-00759 1002 5D

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

Environmental Impacts of Land Application of Sludge,
W77-02391 1005 5D

Current EPA Research Activities in Solid Waste Management,
W77-02396 1005 5E

Syncrude Vows Environmental Responsibility,
W77-02600 1006 5D

Residual Waste Management Research and Planning Projects, September 1975,
W77-03355 1007 5B

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

Validity, Construction, and Application of S 5 of Reclamation Law of 1902 (43 USCS S 431),
W77-03712 1008 6E

Oil Conservation and Reclamation,
W77-04455 1009 5D

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

Lake Trummen Restoration Project. II. Bacteria, Phytoplankton and Phytoplankton Productivity,
W77-06388 1013 5G

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

Lake Restoration Through Mechanical Harvesting of Aquatic Vegetation,
W77-07451 1015 5G

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

Research Benefits in Water Resources Construction,
W77-08858 1018 6B

The Third London Airport Study,
W77-09037 1018 2L

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

Sludge Treatment, Utilization, and Disposal,
W77-10647 1021 5D

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

Criteria for Developing Pollution Abatement Programs for Inactive and Abandoned Mine Sites,
W77-11454 1022 5G

Palo Alto Sees Golden Glint in Sludge.
W77-11703 1023 5D

RECLAMATION ACT OF 1902

Validity, Construction, and Application of S 5 of Reclamation Law of 1902 (43 USCS S 431),
W77-03712 1008 6E

RECLAMATION EXTENSION ACT OF 1914

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

RECLAMATION STATES

Water for Nevada. Water Planning Report.
W77-03545 1007 6B

RECOMPRESSION CHAMBER

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

RECONSTITUTED WATER

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

RECORD LENGTH

Economic Optimum Record Length,
W77-00117 1001 4A

RECORDERS

Digital Raingage Recorder,
W77-07172 1015 2B

RECOVERY FURNACES

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

RECREATION

Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

Evaluation of Recreational Sites,
W77-00387 1001 6B

Value of Time in Recreation Benefit Studies,
W77-00710 1002 6B

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Leases of Lakes, Ponds, Streams and Reservoirs.
W77-01116 1003 6E

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Benefits from Water Pollution Abatement, Coastal Waters, (Volumes 1 and 2).
W77-01986 1004 5G

Methods for Determining Recreational, Environmental, and Economic Consequences of Alternative Development Programs for the Bear Lake Area,
W77-02082 1005 6B

Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

A Scientific Basis for Determining Recreational Water Quality Criteria,
W77-04011 1008 5G

Benefits from Water Pollution Abatement, Recreation.
W77-04299 1009 5G

1975 Annual Report Natural Resources and Recreation Agencies,
W77-04357 1009 6E

Limnological Data and Their Use in Practical Water Management, (In German),
W77-04657 1010 5G

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Effects of Off-Road Vehicle Use on the Hydrology and Landscape of Arid Environments in Central and Southern California,
W77-04980 1010 4C

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

In-Stream Appropriation for Recreation and Scenic Beauty (Comment on Idaho Department of Parks V Idaho Department of Water Administration),
W77-05057 1010 6E

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

A Method to Determine Personal Values,
W77-06354 1013 6B

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

Shoreline Management and Boating - Can the Industry Survive. (Report on the Fourth Marine Recreation Conference).
W77-06544 1013 6E

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

Inland Lake Demonstration Project,
W77-06599 1013 5G

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

Property-Coastal Shores-Private Property Rights Upheld over Claimed Public Right to Recreational use of Beach-Implied Dedication, Easement by Prescription, Public Trust Through Custom and Grant, and Doctrine of Submergence not Applicable. Department of Natural Resources V. Mayor and Council of Ocean City, 274 Md. 1, 332 A.2d 630 (1975).
W77-07239 1015 6E

Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

Governmental Interest in Protecting Beach from Environmental Damage Through Overuse Outweighs Due Process Right to Bath Nude,
W77-08124 1017 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

Flood Plains for Open Space and Recreation.
W77-08374 1017 6F

Recreational Water Resources Problems.
W77-08711 1018 6B

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

Potential Water Recreation Opportunities at Municipal and Private Forest Mountain Reservoirs,
W77-09272 1019 6B

Preservation of Certain Lakes as Health Resorts and Recreation Places.
W77-09576 1019 6E

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Human Induced Stress on the Caucasian Coast of the Black Sea,
W77-11040 1022 4D

The Texas Open Beaches Act: Public Rights to Beach Access,
W77-11156 1022 6E

Public Rights in Ocean Beaches: A Theory of Prescription,
W77-11157 1022 6E

Constitutionality of the Eckhardt Open Beaches Bill,
W77-11158 1022 6E

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

Selecting and Planning High Country Reservoirs for Recreation Within a Multipurpose Management Framework,
W77-11938 1023 6B

RECREATION ACTIVITIES

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

RECREATION DEMAND

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Estimating Net Benefits of Recreation Under Conditions of Excess Demand,
W77-03964 1008 6D

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

Genesee County Parks and Recreation Study,
W77-05214 1011 6B

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

Methodological Problems in Estimating Recreational Demand Functions and Evaluating Recreational Benefits,
W77-08007 1016 6B

Recreational Use of Small Streams in Wisconsin,
W77-08008 1016 5G

RECSAD: A Computer Program for Recreation Planning,
W77-08300 1017 6B

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

County of Orange v. Chandler-Sherman Corporation (Implied Public Dedication of Private Land Through Substantial and Continuous Use).
W77-09561 1019 6E

The Functional and Aesthetic Uses of Two Cache Valley, Utah, Canals,
W77-09796 1020 6B

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

RECREATION FACILITIES

Sewer Force Main Helps Solve Pollution Problem.
W77-00075 1001 5D

Evaluation of Recreational Sites,
W77-00387 1001 6B

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Survey of the Critical Natural, Historic and Recreational Areas in Kentucky.
W77-02063 1004 6B

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Water Usage and Wastewater Characterization at a Crops of Engineers Recreation Area,
W77-03362 1007 5A

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Oklahoma Planning and Resources Board.
W77-04382 1009 6E

Public Patrimony: An Appraisal of Legislation and Common Law Protecting Recreational Values in Oregon's State-Owned Lands and Waters,
W77-04910 1010 6E

Coastal Planning for Pleasure Boating,
W77-05033 1010 6B

RECREATION FACILITIES

City and County of Honolulu V Bennett (Determination of Private Ownership Rights in Offshore Islands and Beach Parcels),
W77-07280 1015 6E

Belford V. City of New Haven (Individual's Challenge to City's Dredging and Construction),
W77-08143 1017 6E

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

Practical Legal Remedies to the Public Beach Shortage,
W77-11468 1022 6E

RECREATION MANAGEMENT

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

RECREATION PARTICIPATION RATES

A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

RECREATION USE

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

RECREATION WASTES

Effects of Recreation on Water Quality in Wildlands,
W77-02590 1006 5C

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

Ground-Water Pollution Aspects of Land Disposal of Sewage from Remote Recreation Areas,
W77-04756 1010 5B

Environmental Planning for an Alaskan Water-Oriented Recreation Area,
W77-08805 1018 6B

RECREATIONAL FACILITIES

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

RECREATIONAL FISHERIES

Decision-Making in Recreational Fisheries Management: an Analysis,
W77-00391 1001 6B

RECREATIONAL WATERS

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

A Bacterial Water Quality Investigation of Canyon Lake, Arizona,
W77-09150 1019 5C

RECYCLING

Regional Wastewater Solids Management Program Los Angeles-Orange County Metropolitan Area,
W77-00011 1001 5E

Wastes Find Fertile Field as Low-Cost Plant Nutrients,
W77-00050 1001 5E

An Overview: So You Want to Recycle your Wastewater. How Should You Begin. Is it Feasible,
W77-00079 1001 5D

Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Use Patterns for Depletable and Recycleable Resources,
W77-00708 1002 6C

A Model of Recycling and Pollution Control,
W77-00711 1002 5G

Optimal Taxation Policies for Conservation and Recycling,
W77-00921 1002 6G

A Case for Reclamation,
W77-01458 1003 5D

The Energy Potential of Municipal Solid Wastes in South Africa,
W77-01463 1003 3D

Solid-Wastes Recycling: Apprehensions, Misapprehensions and Dilemmas,
W77-01484 1003 5D

Organization of Work on the Sanitary Protection of Water Bodies in the Ryazan Oblast, (In Russian),
W77-01578 1004 5D

Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

Whitewater System Closure in NSSC Corrugating Medium Manfacture,
W77-01673 1004 5D

An Investigation of the Separability and Reuse Potential of the Ash Component of High-Ash Content Paper Mill Sludges,
W77-01679 1004 5D

Water Recycle Treatment System for Use in Metal Processing,
W77-01724 1004 5D

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Sanitary-Hygienic Evaluation of the Recycled Water Supply on Railroads, (In Russian),
W77-02241 1005 3E

Clarification Plant,
W77-02337 1005 5D

Solar Sewage Plant 75% Energy Self-Sufficient.
W77-02354 1005 5D

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Landfill Management with Leachate Recycle and Treatment: An Overview,
W77-02411 1005 5D

Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Chlorides in the Kraft Recovery System. II. Process and Equipment Aspects on a Closed Bleached Kraft Mill,
W77-02560 1005 5D

Effluent-Free Bleached Kraft Pulp Mill. VIII. Bleach Plant Renovation and Design,
W77-02562 1005 5D

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Investigation of Commercial Chrome-Tanning Systems: Part VI. Full-Scale Trials of Chrome Liquor Recycling and the Importance of Salt Concentration,
W77-02594 1006 5D

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

Marine Polyculture Based on Natural Food Chains and Recycled Wastes,
W77-02662 1006 5C

Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

Sewage Sludge Treatment System,
W77-03487 1007 5D

Fermentation of Waste Materials to Produce Industrial Intermediates,
W77-03563 1007 5D

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

Effect of Residues from Effluent Treatment During Solid Board Manufacture (Auswirkung von Rueckstanden aus der Abwasserreinigung bei der Vollpappenerzeugung),
W77-03819 1008 5D

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Methane From Farm Wastes,
W77-04630 1010 5B

AWT at Woodlands, Texas,
W77-04690 1010 5D

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Opportunities and Risks of Closing the Water Cycle in Paper Mills (Chancen und Risiken der Wasserkreislaufschliessung in Papierfabriken),
W77-04815 1010 5D

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

Wastewater Problems and Economy (Abwasserprobleme und Wirtschaftlichkeit),
W77-04818 1010 5D

Recycling Sewage Waste Resources and Soil Amelioration,
W77-04827 1010 5E

Mill Visit to Haindl Papier GMBH at Schongau (Besichtigung des Werkes Schongau der Haindl Papier GmbH).
W77-04830 1010 5D

Recycling Agricultural Runoff,
W77-05333 1011 5D

Recycling of Sewage Effluent by Irrigation: A Field Study on Oahu, Final Progress Report for August 1971 to June 1975.
W77-05372 1011 5D

Closed-Cycle Utilization of Fermentation Industry Effluents (Zamknutyi tsikl ispol'zovaniya otkhodov gidroliznogo proizvodstva),
W77-05689 1012 5D

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

Fast Payout from In-Plant Recovery of Spent Solvents,
W77-06210 1013 5D

State-of-the-Art Review of Processes for Treatment and Reuse of Potato Wastes,
W77-06949 1014 5D

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

Silk from Sow's Ears.
W77-07867 1016 5D

Kraft Mill Recovery System,
W77-08258 1017 5D

Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

Taking Acres Out of Pollution-Control Plans,
W77-08283 1017 5D

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

An Overland Flow - Lagoon Recycle System as a Pretreatment of Poultry Wastes,
W77-09148 1019 5D

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Activated Carbons for Effluent and Water Treatment,
W77-09409 1019 5D

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

'Not One Drop of Effluent'--Hydrochloric Acid Recovery from Spent Pickle Liquor.
W77-09417 1019 5D

The Renovation and Re-Use of Wastewater,
W77-09686 1020 5D

Fiberboard Mill Recycles Water.
W77-09728 1020 5D

Brown (Co.) Recycles De-inking Water on Tissue-Grade Products,
W77-09732 1020 5D

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Recycling of Alum Used for Phosphorus Removal in Domestic Waste Water Treatment,
W77-09847 1020 5D

Possibilities of Recycling in South Africa, Choices and Conflicts,
W77-10221 1021 5D

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Let's Talk Rubbish; Part 2: Recycling Symposium,
W77-10381 1021 5D

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

Possibilities of Waste Recycling in South Africa - Choices and Conflicts,
W77-11551 1023 5D

Possibilities of Waste Recycling in South Africa - II,
W77-11552 1023 5D

Mechanical Sewage Sludge Composting - In Mixer with Recycled Biogenic Mass Charging Revolving Heated Drum.
W77-11681 1023 5E

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

Nitrogen Recycling in the Chowan River,
W77-12252 1024 5C

RED ABALONE

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

RED BLOOD CELLS

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

RED CEDAR RIVER (MICH)

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Continuous Automated Monitoring of Chemical and Physical Characteristics of the Red Cedar River,
W77-08110 1017 5A

RED CLAY EROSION

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

RED MANGROVE

Aspects of Red Mangrove Reforestation in Florida,
W77-03950 1008 5G

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

RED MUD

Environmental Study of the Disposal of Red Mud Waste,
W77-06427 1013 5E

RED PEST DISEASE

Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

RED PINE

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

RED PINE TREES

Noise Abatement in a Pine Plantation,
W77-05122 1011 4A

RED RIVER (LA)

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

RED RIVER OF THE NORTH (MINN)
1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

RED RIVER VALLEY (LA)
Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

RED SEA
Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

Influence of Mercury, Lead, Cadmium and Copper on Primary Production and Phytoplankton in Some Coastal Areas of the Mediterranean and Red Seas, (In Russian),
W77-02249 1005 5C

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

Anoxic, Hypersaline Basin in the Northern Gulf of Mexico,
W77-10319 1021 2L

RED SEA MOLLUSKS
Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

RED TIDE
Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

Red Tide in the Upwelling Region of Baja California,
W77-07169 1015 5C

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Red Tide in the Seto Inland Sea, (In Japanese),
W77-10509 1021 5C

The Present State and Problems on the Red Tide Research in Japan, (In Japanese),
W77-10551 1021 5B

The Physiological Characteristics of Neritic Red Tide Flagellates, (In Japanese),
W77-10686 1021 5C

Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

Gymnodinium Type-'65 Red Tide in Occurring Anoxic Environment of Omura Bay, (In Japanese),
W77-10706 1021 5C

Growth of Gymnodinium Type-'65, Causative Organism of Red Tide in Omura Bay, in Medium Supplied with Bottom Mud Extract,
W77-10707 1021 5C

Studies on the Mechanisms of Red Tide Occurrence in Hakata Bay: II. General Features of Red Tide Flagellate, Heterosigma sp., (In Japanese),
W77-10740 1021 5C

Succession of Red Tide Organisms in Omura Bay, with Relation to Water Pollution, (In Japanese),
W77-10997 1022 5C

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

The Red Tides of Malta,
W77-11334 1022 5C

Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

REDEAR SUNFISH
Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

REDFISH
Food and Feeding of Larval Redfish in the Gulf of Maine,
W77-05844 1012 2L

REDISTRIBUTION
Soil Water Movement: Infiltration, Redistribution, and Groundwater Movement,
W77-04776 1010 2G

REDLANDS (CALIF)
Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

USGS Scientists Bring California Water Supply into Compliance with Federal Regulations,
W77-06853 1014 5G

REDUCTION
Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

REDUCTION (CHEMICAL)
Anthropogenically Reduced Groundwaters,
W77-07360 1015 5B

REDWOOD CREEK DRAINAGE BASIN (CALIF)
Erosional Landform Map of the Redwood Creek Drainage Basin, Humboldt County, California, 1947-74,
W77-05742 1012 7C

REDWOOD NATIONAL PARK (CALIF)
Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

REDWOOD RIVER (MN)
Flood Plain Information: Redwood River at Marshall, Minnesota.
W77-06584 1013 4A

REED-BANKS (LAKES)
Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

REED COMMUNITIES
A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

REED MOWING
Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

REEDS
Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

REEFS
The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

REFEEDING
Methane From Farm Wastes,
W77-04630 1010 5B

REFINED OIL
Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

REFINERIES
Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1975,
W77-07334 1015 5G

REFINERY WASTES
Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Air Flotation of Oily Waste Waters with Organic Coagulants,
W77-08282 1017 5D

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

REFLECTANCE
Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

Synopsis of Current Satellite Snow Mapping Techniques, with Emphasis on the Application of Near-Infrared Data,
W77-10676 1021 2C

Red and Near-Infrared Spectral Reflectance of Snow,
W77-10684 1021 2C

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

Shipboard Oil-in-Water Monitor,
W77-11910 1023 5A

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

REFLECTANCE RATIO

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

REFORESTATION

Afforestation in Low Rainfall Areas,
W77-03139 1007 4D

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Aspects of Red Mangrove Reforestation in Florida,
W77-03950 1008 5G

Suggested Mangrove Transplanting Techniques,
W77-03951 1008 5G

Plantings of Red Mangrove (Rhizophora Mangle L.) in Charlotte and St. Lucie Counties, Florida,
W77-03952 1008 5G

Moisture and Temperature of Soil in Different Sites of a Fir Stand, (In Italian),
W77-06466 1013 2G

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

REFRACTION (WATER WAVES)

Comparison of Remotely Sensed Continental-Shelf Wave Spectra with Spectra Computed by Using a Wave Refraction Computer Model,
W77-08911 1018 2L

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

REFRACTIVITY

Biodegradability of Organic Compounds,
W77-05483 1011 5B

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

REFRACTORY INDEX

Bio-Refractory Index for Organics in Water,
W77-02520 1005 5A

Biodegradability of Organic Compounds,
W77-05483 1011 5B

REFRIGERATION CONSTRUCTION

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

REFUSE ACT OF 1899

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

United States V Atlantic Richfield Company (Absolute Liability for Oil Spills Under Federal Water Pollution Control Act).
W77-10484 1021 6E

REGELATION

An Experimental Study of the Motion of Ice Past Obstacles by the Process of Regelation,
W77-09033 1018 2C

REGENERATION

A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

REGENERATION BRINES

Septic Tank Study is Off and Running.
W77-06859 1014 5D

REGIME DOMINANCE

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

REGIONAL ANALYSIS

Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Water Pollution Control Law of 1972, Regional Impacts, Kanawha River.
W77-01975 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Delaware River Basin, (Parts 1, 2, and 3).
W77-01978 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Great Lakes-Lake Erie, (Volumes 1, 2, and 3).
W77-01979 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Chattahoochee-Flint-Apalachicola, (Parts 1 and 2).
W77-01980 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Ohio River Basin, (Volumes 1 and 2).
W77-01981 1004 5G

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Summary Appraisals of the Nation's Ground-Water Resources--Arkansas-White-Red Region,
W77-03877 1008 4B

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Air Pollution Control Costs and Consumption Pattern Effects. A Regional Analysis,
W77-05215 1011 5G

A Review of Recent Extensions of Linear Economic Models to Regional Environmental Quality Analysis,
W77-05254 1011 6B

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

Apparent Regional Skew,
W77-07484 1015 2E

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Low Flow Analyses of Streams: Details of Computational Procedures and Annotated Bibliography,
W77-08219 1017 2E

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

Water Supply Economics,
W77-08863 1018 6B

A Systematic Approach to Regional Water Quality Planning,
W77-09156 1019 5G

Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

National and Interregional Models of Land Use, Water Allocation, Soil Loss Control, and Agricultural Policy,
W77-10171 1021 6A

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

Regional Environmental Management Modeling.
W77-10842 1022 6A

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Design of Surface Water Data Networks for Regional Information,
W77-12154 1023 7A

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

Resource Adequacy in Limiting Nonpoint Pollution,
W77-12615 1024 5B

A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

REGIONAL ASSESSMENT ADVISORY COMMITTEE
Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

REGIONAL DEVELOPMENT
Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

Physical and Economic Parameters for Planning Regional Wastewater Treatment Systems,
W77-04010 1008 5D

Pollution Abatement and Regional Welfare: A Control Theory Approach,
W77-04169 1009 6G

North Carolina's Coastal Area Management Act,
W77-05034 1010 6E

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Planning of Systems for Regional Development in Water Resources,
W77-08049 1016 6A

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

Regulating Development Along the California Coast,
W77-09534 1019 4A

$885 Million-Plus Plan is Recommended for Boston Area,
W77-10578 1021 5D

Brazil--A Market for British Effluent and Water Treatment Plant Manufacturers,
W77-10603 1021 5D

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

Regional Environmental Management Modeling.
W77-10842 1022 6A

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

A Linear Programming Model for Assessing the Regional Impacts of Energy Development on Water Resources,
W77-12633 1024 6A

REGIONAL ECONOMICS
Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

REGIONAL EVAPORATION
On Penman's Equation for Estimating Regional Evaporation,
W77-09953 1020 2D

REGIONAL EVAPOTRANSPIRATION
The Applicability of Planetary Boundary Layer Theory to Calculate Regional Evapotranspiration,
W77-04771 1010 2D

REGIONAL FLOOD
Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

REGIONAL GOODS
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

REGIONAL MANAGEMENT
The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

REGIONAL PLANNING
Residual Waste: Model State Legislation,
W77-04905 1010 5G

Use of a Parametric Model as a Tool for Hydrometric Network Planning,
W77-06710 1014 2A

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Water--An Element of Land-Use and Urban Growth Policies,
W77-08872 1018 6B

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

REGIONAL TREATMENT PLANTS
Whither Village Sewage,
W77-04698 1010 5D

Optimal Size of Regional Wastewater Treatment Plants,
W77-05929 1012 5D

REGIONAL WASTE TREATMENT FACILITIES
Analysis of Regional Waste Treatment Systems,
W77-05987 1012 5D

REGIONAL WASTEWATER TREATMENT
Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

REGIONAL WATER AUTHORITIES
Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

REGIONAL WATER QUALITY PLANNING
Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

REGIONS
Boundaries of Arid Regions, (In Russian),
W77-01032 1002 7C

Water Pollution Control Act of 1972, Regional Impacts, Merrimack-Nashua River Basin.
W77-04310 1009 5G

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

REGOESSION ANALYSIS
Use of Quantitative Correlations Between Microorganisms for River Pollution Evaluation, (In Russian),
W77-07482 1015 5B

REGRESSION ANALYSES
Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

REGRESSION ANALYSIS
Total Nitrogen Using a Sodium Hydroxide Index and Double Sampling Theory,
W77-00297 1001 2G

Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

The Economic Water Supply in Idaho,
W77-00538 1002 6B

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Fault, and Soil Characteristics,
W77-00779 1002 2J

Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

A Drawdown Prediction Model Based on Regression Analysis,
W77-02015 1004 4B

Formulas Used to Analyze Wind-Driven Currents as First-Order Autoregressive Processes,
W77-02670 1006 2L

Depth and Frequency of Floods in Illinois,
W77-03346 1007 2E

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

Water Temperature Forecasting and Estimation Using Fourier Series and Communication Theory Techniques,
W77-04774 1010 2E

Surface Water Network Design by Regression Analysis Simulation,
W77-06963 1014 2E

Missouri River Power Curve Regression Equations,
W77-07152 1015 2E

Stochastic Properties of Daily Temperature in Rivers,
W77-07159 1015 5B

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

Relationship Between Corn Yield, Expressed as a Percentage of Maximum, and the N Percentage in the Grain. I. Various N-Rate Experiments,
W77-08456 1017 3F

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

A Comparison of the Methods for Calculating the Constants for the First Order BOD Equation,
W77-08494 1017 5B

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Investigations on Precipitation from Various Locations in Norway 1965-71,
W77-11785 1023 2B

Design of Surface Water Data Networks for Regional Information,
W77-12154 1023 7A

REGULATED FLOW

River Turbine,
W77-05660 1012 4A

Post-Impoundment Effects of Regulated Flows from Dworshak Dam on the Benthic Insect Community of the Clearwater River, Idaho,
W77-05725 1012 5C

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

REGULATED LAKES

Food Pathways in Regulated Lakes, (In Swedish),
W77-04746 1010 2H

REGULATION

Spill Prevention--Phase II,
W77-00201 1001 5G

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Regulations: Reactions and Resolution,
W77-00615 1002 5G

Control of Turbidity at Construction Sites,
W77-00808 1002 4D

Wisconsin Natural Resource Use Controls and Assistance.
W77-00915 1002 6E

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

Environmental Protection and Enhancement (General Guidance to Elements Within the Department of the Army on Environmental Protection).
W77-00984 1002 5G

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Protection of Aquatic Wildlife.
W77-00992 1002 6E

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

Federal Regulation of Development in Flood-Prone Wetlands--The Army Corps of Engineers,
W77-01094 1003 6E

Dealing with Variable Flood Hazard,
W77-01343 1003 6F

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

Proceedings of Conference on Farm Animal Wastes: 'Farmer Experiences, Codes, Guidelines, Research Progress, Equipment'.
W77-01521 1003 5G

A Review of the Pollution Abatement Situation in Industry, Municipalities and Government,
W77-01522 1003 5G

A Review of Animal Waste Regulations Around the Nation,
W77-01523 1003 5G

Pollution Abatement in Wisconsin, Historical Development and Present Status,
W77-01524 1003 5G

Animal Waste Problems Now Facing the Department of Natural Resources,
W77-01525 1003 5G

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Environmental Poisons.
W77-01547 1003 5C

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

Panel 'C' - Toxic Substances,
W77-02054 1004 6G

Atlantic Offshore Oil: The Need for Planning and Regulation,
W77-02426 1005 6G

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

Individual Sewage Disposal System Act.
W77-03491 1007 6E

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

The Cost of Coastal Zoning.
W77-03535 1007 6E

Coastal Zone Management in Florida,
W77-03699 1008 6E

Water Transportation Service.
W77-03725 1008 6E

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Legal Aspects of Land Use Regulation of Lake Shorelands by State and Local Governments for the Protection of Lakes,
W77-04175 1009 6E

Flood Control Regulations.
W77-04371 1009 4A

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

EPA Sets Final Rules on Feedlot Permits.
W77-04603 1010 5G

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Feeders Warned State, Local Rules on Pollution Are Coming Threat.
W77-04606 1010 5G

Final Pollution Rules Released,
W77-04609 1010 5G

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Environmental Law--Water Pollution--EPA Administrator is Empowered to Promulgate Effluent Limitations--American Iron and Steel V EPA, 526 F2D 1027 (3D CIR 1975),
W77-04903 1010 5G

Navigation Regulation: Ohio River, Mississippi River Above Cairo, Illinois and Their Tributaries,
W77-04927 1010 4A

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

Canned and Preserved Seafood Processing Point Source Category, Effluent Guidelines and Standards.
W77-06057 1012 5G

General Ecological Concepts in Hydrobiology and Problems of Regulating Freshwater Ecosystems, (In Russian),
W77-06134 1013 6G

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. I. Introduction and Future Prospects of Protective Planning (Verfahrens-technische Unterlagen im Hinblick auf die neuen Gewaesserschutz-anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. I. Einfuehrung und Perspektive im Hinblick auf die Gewaesserschutzplanung),
W77-06182 1013 5D

Control and Treatment of Waste Water,
W77-06185 1013 5G

Regulating Activities with Catastrophic Environmental Effects,
W77-06703 1014 6G

Methods for Control of the Regimes for Water Resources Systems,
W77-06717 1014 4A

Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

House Committee Marks up HR 9560,
W77-07236 1015 5G

Rules for the Protection of the Marine Environment Relating to Tank Vessels Carrying Oil in Bulk,
W77-07251 1015 5G

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

The Current State of Environmental Policy,
W77-08005 1016 6G

A Note on the Fair Division of Pollution Rights,
W77-08006 1016 6G

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

Natural Resources Defense Council V Stamm (National Environmental Policy Act Not Satisfied When EIS Fails to Discuss All Reasonable Alternatives to the Project).
W77-08148 1017 6E

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

Oil Spills and Spills of Hazardous Substances.
W77-08385 1017 5G

NPDES Permits and Water Analyses.
W77-08953 1018 5G

Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

Toxic Pollutant Effluent Standards for Aldrin/Dieldrin, DDT, Endrin, and Toxaphene,
W77-08983 1018 5G

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Permit Program Regulations For Concentrated Animal Feeding Operations.
W77-08988 1018 5G

Economic Incentives for Land Use Control,
W77-09467 1019 6B

Some Legal Aspects of the Atlantic Lobster Industry,
W77-09548 1019 6E

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Permit Program Regulations for Agricultural Activities, (NPDES), (Proposed).
W77-09560 1019 6E

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
W77-10357 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
W77-10358 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

A New Code for Reducing Stream Siltation,
W77-10369 1021 4D

The Push to Ease Water Rules.
W77-10446 1021 6E

Ceed V California Coastal Zone Conservation Commission (California Coastal Conservation Act Upheld Against Constitutional Challenge).
W77-10488 1021 6E

Water Pollution Control Across the Nation,
W77-11159 1022 5G

PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Water Quality Management in the Soviet Union,
W77-12398 1024 5G

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

Dredged Material Research Problems and Progress,
W77-12892 1024 6E

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

REGULATIONS

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

REHABILITATION

Agricultural and Environmental Impacts as a Result of Increased Demands for Energy Development,
W77-00545 1002 6D

Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

Well Maintenance and Rehabilitation,
W77-10516 1021 8B

Sewer Maintenance and Rehabilitation.
W77-11499 1022 5D

Well Redevelopment: Part 1,
W77-12673 1024 8B

REICOTOPS

The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

REINFORCED CEMENT CONCRETE

A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

REINFORCEMENT

Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

RELATIVE RIGHTS

A Note on the Fair Division of Pollution Rights,
W77-08006 1016 6G

Procedure for Determining or Establishing Water Rights in State Streams.
W77-11197 1022 6E

RELATIVE TOLERANCE

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

RELEASE RULES

Optimal Seasonal and Short-Term Operation of a Reservoir Used for Flood Control and Water Supply,
W77-06724 1014 4A

RELEASE SITES

Effect of Release Location on Survival of Juvenile Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W77-05782 1012 5C

RELIABILITY

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

Quest for an Index of Community Structure Sensitive to Water Pollution,
W77-07136 1015 5A

An Analysis of Flood Levee Reliability,
W77-11224 1022 4A

RELICTION

Riparian Owner's Right to New Land Created by Reliction or by Accretion Influenced by Artificial Condition Not Produced by Such Owner.
W77-08398 1017 6E

State of Florida V Florida National Properties, Inc. (Riparian Boundaries in Meandered, Fresh-Water Lakes).
W77-09577 1019 6E

RELOCATION

Settlements in the Rajasthan Canal Irrigation Area, India,
W77-01272 1003 4C

Relocation of Buried Markers,
W77-08240 1017 2C

REMEDIES

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

A New Measure of Damage for Wrongfully Appropriated Water,
W77-08361 1017 4A

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

REMOTE CONTROL

Remote Control for Large-Area Sprinkler Systems,
W77-09814 1020 3F

Irrigation Signal,
W77-11008 1022 3F

REMOTE SENSING

Remote Detection of Water Pollutants by Computerized Laser-Raman Spectroscopy,
W77-00154 1001 5A

Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

The Development of an Experimental Airborne Laser Oil Spill Remote Sensing System,
W77-00213 1001 5A

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

Development of U.S. Coast Guard Prototype Airborne Oil Surveillance System,
W77-00215 1001 5A

An Investigation of a Cold Eddy on the Eastern Side of the Gulf Stream Using NOAA 2 and NOAA 3 Satellite Data and Ship Data,
W77-00364 1001 2L

The Use of Color Infrared Photography for the Determination of Suspended Sediment Concentrations and Source Areas,
W77-00844 1002 2J

Water Resource Evaluation Using Photogrammetric and Remote Sensing Techniques,
W77-00937 1002 4A

IFYGL Rawinsonde Data Acquisition System,
W77-01189 1003 2H

Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection,
W77-01533 1003 5A

Long-Range Echo Sounding with a Chirp Source,
W77-01614 1004 2L

Soil Water Content and Evaporation Determined by Thermal Parameters Obtained from Ground-Based and Remote Measurements,
W77-01618 1004 2G

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Potential Use of Satellite IR Data for Ice Thickness Mapping,
W77-01913 1004 2C

Wave Patterns Across the North Atlantic on September 28, 1974, from Airborne Radar Imagery,
W77-01921 1004 2L

Radar Imaging of Ocean Surface Patterns,
W77-01932 1004 2L

The Operational Use of Digital Radar Data for Flash Flood Monitoring,
W77-01941 1004 7B

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

Optical Remote Sensing of Water Pollutants,
W77-02192 1005 5A

Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

Remote Sensing of Soil Moisture by a 21-CM Passive Radiometer,
W77-02480 1005 2G

A Technique for Estimating Tropical Open-Ocean Rainfall from Satellite Observations,
W77-02484 1005 2B

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

Satellite Microwave Observations of Soil Moisture Variations,
W77-02495 1005 2G

An Operational Application of Satellite Snow Cover Observations - Northwest United States,
W77-02496 1005 2C

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Evaluation of the Feasibility of Using the Data Collection System to Operate a Network of Hydrological and Climato-Logical Stations at Sites Remote from Normal Communication Links,
W77-02501 1005 7B

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

An Analysis of Great Lakes Ice Cover from Satellite Imagery,
W77-02676 1006 2C

Scanning Thermal Plumes,
W77-02682 1006 5A

Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

The Study of the Effect of Sea Roughness on the Remote Sensing of Oil Pollution by the Active Method, (In Russian),
W77-02898 1006 5A

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Radio-Echo Layers and the Recent Stability of the West Antarctic Ice Sheet,
W77-03100 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

The Aerial Photo-Water Quality Link.
W77-03471 1007 5A

Estimate of the Suitability of Television Information from Meteorological Meteor Satellites for Determining Ice Conditions in Lakes and Reservoirs,
W77-03765 1008 2C

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Some Problems in the Study of the Inundation of River Flood Plains by Aerospace Methods,
W77-03847 1008 4A

Hydrologic Aspects of Space Investigations of the Earth's Surface (Literature Survey),
W77-03848 1008 7B

Use of Satellite Survey Material in Glaciological Investigations,
W77-03851 1008 2C

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

Arizona Land Use Experiment,
W77-04245 1009 7B

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

A Light in the Water.
W77-04282 1009 8G

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

The Use of Remote Sensing for Coastal Zone Monitoring,
W77-04475 1009 5B

The Utilization of the APT and ATS Satellite Communication Systems in Coastal Research Programs,
W77-04483 1009 2L

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

Determination of Snow Depth and Water Equivalent by Remote Sensing,
W77-05104 1011 2C

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

The Use of Remote Sensing in a Study of Submerged Aquatic Macrophytes of the Pamlico River Estuary, N.C.,
W77-05487 1011 5A

Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

On the Ocean Temperature Distribution in the Gulf of Alaska, 1974-1975,
W77-06320 1013 2L

The Polarization Characteristics of Lidar Scattering from Snow and Ice Crystals in the Atmosphere,
W77-06512 1013 2C

Remote Sensing of the Thickness and Composition of Cirrus Clouds from Satellites,
W77-06513 1013 2B

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

An Operational All-Weather Great Lakes Ice Information System,
W77-06527 1013 2C

Great Lakes All-Weather Ice Information System,
W77-06528 1013 2C

Remote Sensing of Soil Moisture with Microwave Radiometers-II,
W77-06530 1013 7B

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

A Single Field of View Method for Retrieving Tropospheric Temperature Profiles from Cloud-Contaminated Radiance Data,
W77-06887 1014 2B

Use of Remote Sensing to Quantify Construction Material and to Define Geologic Lineations; Dickey-Lincoln School Lakes Project, Maine,
W77-06888 1014 8D

Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

Improving Estimates of Streamflow Characteristics Using LANDSAT-1 (ERTS-1) Imagery,
W77-06972 1014 4A

Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

Use of Aerial Remote Sensors to Monitor Dredging Projects,
W77-07344 1015 8D

Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Test of Landsat-Based Urban Hydrologic Modeling,
W77-07528 1015 6A

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-07549 1015 2H

Satellite Observations of Water Quality,
W77-07554 1015 5A

Verification by Remote Sensing of an Oil Slick Movement Prediction Model,
W77-07745 1016 5B

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Technical Session Presentations, Water Resources, Volume I-D,
W77-08062 1016 7B

The Use of Skylab and LANDSAT in a Geohydrological Study of the Paleozoic Section, West-Central Bighorn Mountains, Wyoming,
W77-08063 1016 7B

Hydrogeological Investigations in the Pampa of Argentina,
W77-08064 1016 7B

Urban Land Use: Remote Sensing of Groundbasin Permeability,
W77-08065 1016 7B

Microwave Remote Sensing of Soil Moisture,
W77-08066 1016 7B

Soil Moisture Detection from Skylab,
W77-08067 1016 7B

The Correlation of Skylab L-Band Brightness Temperatures with Antecedent Precipitation,
W77-08068 1016 7B

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

Remote Sensing of Mississippi River Characteristics,
W77-08070 1016 7B

Application of Thermal Scanning to the Study of Transverse Mixing in Rivers,
W77-08071 1016 5B

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Land Use Classification for Hydrologic Models using Interactive Machine Classification of Landsat Data,
W77-08074 1016 7B

Remote Sensing Techniques for Prediction of Watershed Runoff,
W77-08075 1016 7B

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

Remote Sensing Applications in Water Resources Management by the California Department of Water Resources,
W77-08078 1016 7B

Evaluation of Thermal X/5-Detector Skylab S-192 Data for Estimating Evapotranspiration and Thermal Properties of Soils for Irrigation Management,
W77-08079 1016 7B

Remote Sensing Inputs to Water Demand Modeling,
W77-08080 1016 7B

Areal Extent of Snow Estimation in the Northern Sierra Nevada Mountains Using LANDSAT-1 Imagery,
W77-08081 1016 7B

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

Factors Affecting Snow Assessment from LANDSAT Data,
W77-08083 1016 7B

Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Radio-Echo Sounding: Reflections from Internal Layers in Ice Sheets,
W77-08230 1017 2C

Relocation of Buried Markers,
W77-08240 1017 2C

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Volume I-A, Technical Session Presentations, Agriculture-Environment.
W77-08408 1017 7B

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Discriminating Coastal Rangeland Production and Improvements with Computer Aided Techniques,
W77-08410 1017 4A

Usefulness of LANDSAT Data for Monitoring Plant Development and Range Conditions in California's Annual Grassland,
W77-08411 1017 4A

Monitoring Vegetation Conditions from LANDSAT for Use in Range Management,
W77-08412 1017 4A

Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

LANDSAT-1 Data, Its Use in a Soil Survey Program,
W77-08414 1017 2G

Delineation of the Boundaries of a Buried Pre-Glacial Valley with LANDSAT-1 Data,
W77-08415 1017 2G

Are Clear-Cut Areas Estimated from LANDSAT Imagery Reliable,
W77-08416 1017 4A

Operational Considerations for the Application of Remotely Sensed Forest Data from LANDSAT or Other Airborne Platforms,
W77-08417 1017 7C

Timber Type Separability in Southeastern United States on LANDSAT-1 MSS Data,
W77-08418 1017 4A

Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

Computer Analysis and Mapping of Gypsy Moth Defoliation Levels in Pennsylvania Using LANDSAT-1 Digital Data,
W77-08420 1017 7C

Computer Implemented Classification of Vegetation Using Aircraft Acquired Multispectral Scanner Data,
W77-08421 1017 4A

The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

Agricultural Applications of Remote Sensing--A True Life Adventure,
W77-08424 1017 3F

Practical Application of Remote Sensing in Agriculture,
W77-08425 1017 3F

Wildlife Management by Habitat Units--A Preliminary Plan of Action,
W77-08426 1017 4A

An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

Application of EREP, LANDSAT and Aircraft Image Data to Environmental Problems Related to Coal Mining,
W77-08429 1017 5A

Quantitative Water Quality with Landsat and Skylab.
W77-08431 1017 5A

LANDSAT-1 Data as it has Been Applied for Land Use and Water Quality Data By the Virginia State Water Control Board,
W77-08432 1017 5A

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Trophic Status of Inland Lakes from LANDSAT,
W77-08434 1017 5A

The Use of LANDSAT-1 Imagery for Water Quality Studies in Southern Scandinavia,
W77-08435 1017 5A

A Comparative Interregional Analysis of Selected Data from LANDSAT-1 and EREP for the Inventory and Monitoring of Natural Ecosystems,
W77-08436 1017 7C

Remote Sensing Applications in Kansas,
W77-08437 1017 4A

Remote Sensing Applications in the Inventory and Analysis of Environmental Problems,
W77-08438 1017 5A

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

Comparison of Remotely Sensed Continental-Shelf Wave Spectra with Spectra Computed by Using a Wave Refraction Computer Model,
W77-08911 1018 2L

Hydrographic Surveying Turns to Electronics,
W77-09105 1019 7B

Recording River and Reservoir Water Depth,
W77-09106 1019 7B

Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

Remote Sensing Methods and Problem of Natural Resource Inventory, (In Russian),
W77-09311 1019 7B

Satellite Microwave Observations of Soil Moisture Variations,
W77-09335 1019 2G

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 1, Abstracts.
W77-09344 1019 10C

Remote Sensing of Earth Resources: (1970-1973 Supplement) A Literature Survey with Indexes, Section 2, Indexes.
W77-09345 1019 10C

Earth Resources--A Continuing Bibliography with Indexes.
W77-09346 1019 10C

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

Remote Sensing of Submerged Aquatic Vegetation in the Lower Cheasapeake Bay,
W77-09468 1019 2L

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

The Great Dismal Swamp: Management of a Hydrologic Resource with the Aid of Remote Sensing,
W77-10007 1020 2H

Seasonal Oceanic Precipitation Frequencies from Nimbus 5 Microwave Data,
W77-10105 1021 2B

Determination of Rainfall Distributions from Microwave Radiation Measured by the Nimbus 6 ESMR,
W77-10106 1021 2B

A Satellite Technique for Quantitatively Mapping Rainfall Rates Over the Oceans,
W77-10113 1021 2B

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

Operational Applications of Satellite Snowcover Observations.
W77-10662 1021 2C

An Overview of the Applications System Verification Test on Snowcover Mapping,
W77-10663 1021 2C

The Application of Hydrometeorological Data Obtained by Remote Sensing Techniques for Multipurpose Reservoir Operations,
W77-10664 1021 4A

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

Operational Applications of Satellite Snowcover Observations in Rio Grande Drainage of Colorado,
W77-10666 1021 4A

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

The Operational Program of Satellite Snowcover Observation at NOAA/NESS.
W77-10668 1021 4A

Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

Utilization of LANDSAT Monitoring Capabilities for Snowcover Depletion Analysis,
W77-10670 1021 2C

Operational Use of LANDSAT Imagery for the Estimation of Snow Areal Extent,
W77-10671 1021 7B

Operational Applications of NOAA-VHRR Imagery in Alaska,
W77-10672 1021 4A

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

Sierra Nevada Snow Melt from SMS-2,
W77-10675 1021 2C

Synopsis of Current Satellite Snow Mapping Techniques, with Emphasis on the Application of Near-Infrared Data,
W77-10676 1021 2C

Approaches to Digital Snow Mapping with LANDSAT-1 Data,
W77-10677 1021 2C

An All Digital Approach to Snow Areal Mapping and Snow Modeling,
W77-10678 1021 2C

Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

Snowcover Mapping by Machine Processing of SKYLAB and LANDSAT MSS Data,
W77-10681 1021 2C

A Progress Report on Estimating Snow Depth Using VHRR Data NOAA Environmental Satellites,
W77-10682 1021 2C

A Comparison of Operational and LANDSAT-Aided Snow Water Content Estimation Systems,
W77-10683 1021 2C

Red and Near-Infrared Spectral Reflectance of Snow,
W77-10684 1021 2C

Remote Sensing of Snowpack Density Using Shortwave Radiation,
W77-10685 1021 2C

Microwave Emissions from Dry and Wet Snow,
W77-10687 1021 2C

Application of Bayesian Decision Theory to Airborne Gamma Snow Measurement,
W77-10688 1021 2C

Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Remote Measurement of 'Turbidity' and Other Water Quality Parameters,
W77-10985 1022 5A

On the Use of Microwave Radiation for Great Lakes Ice Surveillance,
W77-11052 1022 2C

Storm Depth-Area Relations from Digitized Radar Returns,
W77-11226 1022 2B

Mapping.
W77-11363 1022 7C

Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-12329 1024 3B

Remote Sensing of Soil Moisture.
W77-12516 1024 2G

Low-Cost Data Analysis Systems for Processing Multispectral Scanner Data,
W77-12549 1024 7B

Application of LANDSAT Data to Delimitation of Avalanche Hazards in Montane Colorado,
W77-12567 1024 2C

The Use of Aerial Photography in the Study of Wave Characteristics in the Coastal Zone,
W77-12573 1024 7B

Precipitation Mapping with an Airborne Synthetic Aperture Imaging Radar,
W77-12804 1024 2B

Aerospace Research of the Environment. Geobotany, Soil Science, and Hydrology.
W77-12820 1024 7B

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

RENAL EXCRETION

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

RENO (NV)

Flood Plain Information: Southwest Foothill Streams (Evans, Thomas, and Whites Creeks and Skyline Wash), Reno, Nevada.
W77-06583 1013 4A

RENOVATION

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

RENT

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

RENT MAXIMIZATION

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

REPAIR

Ideas Aplenty-But Still Sewers Face Cash Neglect.
W77-08554 1017 8G

REPAIRING

Plastic Lining Overcomes Rugged Terrain,
W77-02333 1005 8G

Emergency Repair of a Deep Storm Sewer Line,
W77-02350 1005 8G

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Inspection and Repair of Main-Sewers (L'Inspection et la Reparation des Collecteurs d'Egouts),
W77-10541 1021 5D

Grout Routs Sewer Problems,
W77-10590 1021 5D

Disaster-Caused Increases in Unit Repair Cost,
W77-11777 1023 6F

Sewer Renovation Techniques.
W77-12449 1024 8C

REPELLENTS

Laboratory Testing of Water-Repellent Soil Treatments for Water Harvesting,
W77-01621 1004 4D

Evaluating Weathering Characteristics of Water-Harvesting Catchments from Rainfall-Runoff Analyses,
W77-11612 1023 3B

REPRODUCTION

Effects of Oil on the Reproduction of the Amphipod Gammarus Oceanicus,
W77-00188 1001 5C

Seasonal Distributions of Larval Flatfishes (Pleuronectiformes) on the Continental Shelf Between Cape Cod, Massachusetts, and Cape Lookout, North Carolina, 1965-66,
W77-01064 1002 2L

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Temperature Recording in Shallow Marine Environments,
W77-01446 1003 2L

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Role of Stock Biomass and Temperature in Recruitment of Southern Gulf of St. Lawrence Atlantic Cod, Gadus Morhua,
W77-02883 1006 5C

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Reproduction of White Perch in the Lower Hudson River,
W77-03058 1006 2L

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Artificial Insemination in Trout Using A Sperm Diluant,
W77-04529 1009 2I

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

Notes on the Nesting Success and Fecundity of the Anemonefish Amphiprion Clarkii at Miyake-Jima, Japan,
W77-06763 1014 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

Effects of Increased Water Temperature on Daphnia Pulex,
W77-07130 1015 5C

Breeding Biology of a Non-Diadromous Galaxiid, Galaxias Vulgaris Stokell, in a New Zealand River,
W77-07389 1015 5C

Studies on the Effect of Temperature on the Egg Laying of Three Species of Calanoid Copepods in the Laboratory (Acartia Tonsa, Temora Longicornis, and Pseudocalanus Elongatus),
W77-07391 1015 5C

Egg Hatchability and Tolerance of Brook Trout (Salvelinus fontinalis) Fry at Low pH,
W77-07844 1016 5C

Reproduction Rate and Productivity of Bacteria in the Ponds of the Karamet-Niyaz Fishery Farm, (In Russian),
W77-08462 1017 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

Aspects of the Growth and Reproduction of Labeo Capensis in the Caledon River,
W77-10194 1021 2E

The Reproduction of Barbus CF. Kimberleyensis (Pisces, Cyprinidae) in the Hardap Dam, South West Africa,
W77-10218 1021 2H

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

REPRODUCTIONS

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

REPTILES

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

REPUBLICAN RIVER (NB)

Special Flood Hazard Information Report: Republican River and Crooked Creek, Red Cloud, Nebraska.
W77-04220 1009 4A

RESEARCH

Philosophy of Multiple Objective Planning in the Bureau of Reclamation,
W77-01156 1003 6B

Perspective and Role of the Economic Research Service in Multiple Objective Planning,
W77-01162 1003 6B

Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

Reorientation of Urban-Related Water Resources Research,
W77-05188 1011 3D

Mathematical Models in Hydrology.
W77-06708 1014 2A

RESEARCH AND DEVELOPMENT

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Contracting for Social Impact Assessment,
W77-00771 1002 6G

Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection,
W77-01533 1003 5A

Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

Status of Ground-Water Modeling in the U.S. Geological Survey,
W77-02300 1005 2F

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W77-03165 1007 9D

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Developments at Water Research Centre.
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Filtration Research in UK Universities,
W77-06120 1013 5D

Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

Rearing System for Small Groups of Experimental Fish,
W77-06422 1013 7B

Portable, Hand-Operated Cycle Sieve for Washing Macroinvertebrate Samples,
W77-06424 1013 7B

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

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Dredged Material Disposal Effects and Alternatives,
W77-07345 1015 8D

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W77-07600 1015 8A

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

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W77-08120 1017 6G

The ERDA Geothermal Program,
W77-08314 1017 4B

Inventory of Water Resources Research at the University of Wyoming, Fiscal Year 1975,
W77-08506 1017 9A

Water Resources Research Interests in the Colleges and Universities of North Carolina.
W77-08931 1018 9A

Inventory of Active Water Resources Research Projects in North Carolina.
W77-08938 1018 9A

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Status of Desalination Research and Technology in the Middle East,
W77-11109 1022 3A

Workshop on Environmental Research for Transuranic Elements.
W77-11128 1022 5C

Water Quality Management--Research and Development Areas,
W77-11747 1023 5G

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W77-11794 1023 9D

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Vermont's Needs in Water Resources Research,
W77-12268 1024 6B

Water Quality Research.
W77-12900 1024 5G

Results of Freshwater Studies in the International Biological Program: Limnological Research in Japan, (In Russian),
W77-12987 1024 2H

RESEARCH EQUIPMENT

A Method of Precalibrating Re-Oxygenation Rates in Experimental Containers,
W77-12051 1023 7B

Chamber for Holding Aquatic Microinvertebrates During Toxicity Tests in a Flow-Through Diluter System,
W77-12185 1023 5A

A Bottle Holder for In Situ Primary Productivity Studies,
W77-12189 1023 5A

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

Concept and Design: Controlled Ecosystem Pollution Experiment,
W77-12854 1024 5A

RESEARCH FACILITIES

Reorganizing Pollution Control in the U.K.
W77-08111 1017 5G

RESEARCH INTERESTS

Water Resources Research Interests in the Colleges and Universities of North Carolina.
W77-08931 1018 9A

RESEARCH NEEDS

Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

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W77-08808 1018 6B

RESEARCH PRIORITIES

Management of Municipal Wastewater Treatment Residuals,
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Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Problem Identification and Ranking, A Selected Review of Techniques Used by Public Agencies,
W77-02080 1005 6B

Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

Current EPA Research Activities in Solid Waste Management,
W77-02396 1005 5E

Current Office of Solid Waste Management Programs - Landfill Activities,
W77-02397 1005 5E

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

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The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

Implementation of Non-Structural Alternatives in Flood Damage Abatement,
W77-07795 1016 6F

U.S. Environmental Protection Agency Environmental Research Outlook FY 1976 Through 1980 (Report to Congress).
W77-08120 1017 6G

Proceedings: The Connecticut River System: A Workshop on Research Needs and Priorities.
W77-08808 1018 6B

Water Resources Research Interests in the Colleges and Universities of North Carolina.
W77-08931 1018 9A

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Aquatic Environmental Quality: Problems and Proposals,
W77-11421 1022 5A

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

Vermont's Needs in Water Resources Research,
W77-12268 1024 6B

RESERVATION DOCTRINE

Water Laws of the United States: The Deficiencies and Degree of Effectiveness,
W77-04355 1009 6E

State V Aamodt (Reserved Water Rights of Pueblos Superior to State Appropriation Laws).
W77-04378 1009 6E

The Public Trust Doctrine: A Viable Approach to International Environmental Protection,
W77-04853 1010 6E

Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

Should Rivers Have Running. Toward Extension of the Reserved Rights Doctrine to Include Minimum Stream Flows,
W77-08372 1017 6E

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

The McCarren Amendment and Indian Tribes' Reserved Water Rights,
W77-10453 1021 6E

Indian Water Rights.
W77-11447 1022 6E

Riparian Rights Revisited: Legal Basis for Federal Instream Flow Rights,
W77-11465 1022 6E

RESERVE MINING CO.

Asbestos in the Great Lakes Basin with Emphasis on Lake Superior, A Report to the International Joint Commission from the Great Lakes Research Advisory Board.
W77-00927 1002 5B

RESERVED RIGHTS

Indian Water Rights.
W77-11447 1022 6E

RESERVOIR
An Approach to a Relative Trophic Index for Classifying Lakes and Reservoirs. (A Preliminary Analysis of National Eutrophication Survey Data Collected During the 1972 Sampling Period).
W77-00930 1002 5C

RESERVOIR CAPACITY
Optimal Design of Single Reservoir System Using (Delta) Relase Policy,
W77-00109 1001 4A

RESERVOIR CONSTRUCTION
Utah Lake Diking Project.
W77-01010 1002 6E

Glendo Reservoir; General Provisions.
W77-06073 1012 6E

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

RESERVOIR DESIGN
Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

A Stochastic Sediment Yield Model for Bayesian Decision Analysis Applied to Multipurpose Reservoir Design,
W77-01892 1004 4D

Minimum Cost Design Using a Pre-Planned Nodal Search Method,
W77-05246 1011 4A

Conservational Water Pricing for Increased Water Supply Benefits,
W77-05993 1012 6D

RESERVOIR EVAPORATION
Water Quality Effect of Diking a Shallow Arid-Region Lake,
W77-02871 1006 5C

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Field Study of Evaporation - Analysis of Data From Eucumbene, Cataract, Manton and Mundaring,
W77-10376 1021 2D

RESERVOIR LEAKAGE
Joint Sealing Problems in Water Retaining Structures in Johannesburg,
W77-01479 1003 8G

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Development of a Low Cost Asphalt-Rubber Membrane for Water Harvesting Catchments and Reservoir Seepage Control,
W77-08601 1018 3B

RESERVOIR OPERATION
Change of the Biochemical Composition of Mussels Under Conditions of Regulated Flow of the Dnieper, (In Russian),
W77-00281 1001 5C

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

Optimal Operations of Reservoirs in the Harz Mountains,
W77-06715 1014 4A

Optimal Design and Operation of Reservoir Systems,
W77-06721 1014 4A

Optimal Seasonal and Short-Term Operation of a Reservoir Used for Flood Control and Water Supply,
W77-06724 1014 4A

Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

Reliability-Constrained Dynamic Programing and Randomized Release Rules in Reservoir Management,
W77-07535 1015 4A

Reservoir Operation Under Conflicting Objectives,
W77-07536 1015 4A

Operating Policy Adaptations for a Reservoir Systems, (Phase I),
W77-07603 1016 4A

Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

Model of a Lake Reservoir,
W77-07687 1016 4A

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

Optimal Operation of Water Resources Systems--1,
W77-08047 1016 4A

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

The Monte Carlo Approach to Optimization of the Operation Rules for a System of Storage Reservoirs,
W77-11604 1023 4A

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

Missouri River Main Stem Reservoir Regulation Studies.
W77-12819 1024 4A

Reservoir Management and the Water Scarcity Issue in the Upper Colorado River Basin,
W77-12839 1024 4A

RESERVOIR OPERATIONS
Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

RESERVOIR RELASES
Improving the Quality of Water Releases from Reservoirs by Means of a Large Diameter Pump,
W77-00668 1002 5B

RESERVOIR RELEASES
Optimal Design of Single Reservoir System Using (Delta) Relase Policy,
W77-00109 1001 4A

Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

A Mathematical Model for Predicting River Temperatures-Application to the Green River Below Flaming Gorge Dam,
W77-01684 1004 4A

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Selection of Streamflow and Reservoir-Release Models for River-Qualtiy Assessment,
W77-02302 1005 2A

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Optimal Operations of Reservoirs in the Harz Mountains,
W77-06715 1014 4A

Reliability-Constrained Dynamic Programing and Randomized Release Rules in Reservoir Management,
W77-07535 1015 4A

Operating Policy Adaptations for a Reservoir Systems, (Phase I),
W77-07603 1016 4A

Operating Policy Simulation or a Reservoir Systems, (Phase II),
W77-07604 1016 4A

RESERVOIR SILTING

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

Determination of Sediment Yield by Transferring Rainfall Data,
W77-10804 1022 2J

RESERVOIR SITES

Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

RESERVOIR STAGES

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

RESERVOIR STORAGE

Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Flood Control Regulations.
W77-04371 1009 4A

Discrete Representation of Storage for Stochastic Reservoir Optimization,
W77-05921 1012 4A

Optimal Operations of Reservoirs in the Harz Mountains,
W77-06715 1014 4A

Multiple Markov Processes in Hydrology and Their Importance for Stochastic Analysis of Water Accumulation Problems,
W77-07684 1016 4A

Mathematical Models of Runoff for the Computation of Storage Reservoirs,
W77-07685 1016 4A

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

The Monte Carlo Approach to Optimization of the Operation Rules for a System of Storage Reservoirs,
W77-11604 1023 4A

RESERVOIR-SYSTEM MODELS

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

RESERVOIR YIELD

A Chart for Reservoir Yield Estimation Based on the Markov Process,
W77-01445 1003 4A

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

Hydrologic Engineering Methods for Water Resources Development: Volume 8, Reservoir Yield,
W77-10991 1022 8B

RESERVOIRS

Before Removing Nutrients...Re-Analyze Lake Tahoe,
W77-00045 1001 5C

Economic Optimum Record Length,
W77-00117 1001 4A

Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

Consumption of Organic Matter of Muds by Ilyocryptus Sordidus (Cladocera, Macrothricidae), (In Russian),
W77-00507 1001 5C

Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Fault, and Soil Characteristics,
W77-00779 1002 2J

Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

Suspended Sediment, Solar Radiation and Heat in Agricultural Reservoirs,
W77-00809 1002 2J

Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

Distribution of Reservoir Sediment--Iowa and Missouri Deep Loess Hills,
W77-00825 1002 2J

The Role of Sediment Problems in Hydroelectric Development,
W77-00826 1002 4D

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

The River's Reach. Connecticut River Supplemental Flood Management Study. Outdoor Recreation Impacts. Phase II. Part V,
W77-01694 1004 6B

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

Biological Investigations of Tuttle Creek Reservoir, Kansas,
W77-01794 1004 5C

Predicted and Observed Temperature and Water-Quality Changes of Lakes and Reservoirs,
W77-02304 1005 2H

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

SKYLAB Study of Water Quality,
W77-02505 1005 5A

The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

Allatoona Lake, Destratification Equipment Test, Appendix A, Operational and Water Quality Data, 1968.
W77-03307 1007 5G

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W77-03309 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix D, Effects of Artificial Destratification on Temperature and Dissolved Oxygen in Allatoona Reservoir.
W77-03310 1007 5G

Landslide Generated Water Wave Model,
W77-03318 1007 8B

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Estimate of the Suitability of Television Information from Meteorological Meteor Satellites for Determining Ice Conditions in Lakes and Reservoirs,
W77-03765 1008 2C

An Investigation into the Effects of Forestry Plantations on the Water Quality of Upland Reservoirs in Northern Ireland,
W77-03840 1008 5B

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

Marshall Ford Dam and Reservoir, Colorado River, Texas; Revision of Flood Control Regulations.
W77-04369 1009 6E

Water Reservoirs.
W77-04381 1009 6E

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

Upper West Fork River Watershed v Corps of Engineers (Construing an Environmental Impact Statement for a Proposed Dam Project).
W77-05073 1010 6E

The Effects of Diurnal Mixing on Thermal Stratification of Static Impoundments,
W77-05172 1011 4A

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

Water-Quality Characteristics of Six Small Lakes in Missouri,
W77-05259 1011 5B

Reservoir Basin Morphometry,
W77-05447 1011 4A

Operational Assessment of Hydrologic Models of Long-Term Persistence,
W77-05957 1012 2E

Extended Period Simulation of Water Systems--Part B,
W77-05996 1012 4A

Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs,
W77-06038 1012 5C

Heat Content of North Mississippi Reservoirs,
W77-06088 1012 5B

Flood Plain Information: Ohio River, Dearborn County, Indiana.
W77-06590 1013 4A

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

On the Application of Optimization Techniques to Conceptual Catchment Models,
W77-06709 1014 2A

Optimization of a Three-Reservoir System by Dynamic Programming,
W77-06720 1014 4A

Optimal Planning of Flows in Multi-Reservoir Hydro-Power Systems,
W77-06730 1014 4A

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

Changes in the Structure of Phytoplankton During the First Years of Existence of the Derdap Storage Reservoir, (In Serbo-Croatian),
W77-06786 1014 2H

A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

Some Arithmetical Relations of a Matrix for a Calculus of Reservoirs, (Quelques Relations Arithmetiques de Matrice dans le Calcul des Reservoirs),
W77-07682 1016 4A

Multiple Markov Processes in Hydrology and Their Importance for Stochastic Analysis of Water Accumulation Problems,
W77-07684 1016 4A

Mathematical Models of Runoff for the Computation of Storage Reservoirs,
W77-07685 1016 4A

Model of a Lake Reservoir,
W77-07687 1016 4A

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

A Second Look at Water Reuse,
W77-07908 1016 5D

Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

A Survey of Cadmium Occurrence and Concentration in Fish from Eleven Major Reservoirs in South Carolina,
W77-08192 1017 5A

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Mineral Cycling in Reservoirs,
W77-08217 1017 5C

The Flooding of Rivers in the USSR and the Measures Taken to Control Ice Jams (Les Inondations Fluviales En URSS Et La Lutte Contre Les Crues Causees Par Les Embacles),
W77-08246 1017 2C

Bank of America National Trust and Saving Association V State Water Resources Control Board (Condition Placed on Water Permit Defeated for Lack of Evidence of Necessity).
W77-08391 1017 6E

Computer Program for Reservoir-Water Budgets,
W77-08464 1017 4A

Water-Quality Records for Selected Reservoirs in Texas, 1974-75 Water Years,
W77-08483 1017 5A

Special Flood Hazard Information Report: Missouri and Kansas Rivers, Kansas City, Kansas.
W77-08613 1018 4A

Flood Plain Information: Ohio River, Lawrence County, Ohio.
W77-08614 1018 4A

Flood Plain Information: Llagas Creek Unit I, Including Edmundson (Little Llagas), Church, San Martin, New, Center, Corralitos, Tennant, Maple, and Foothill Creeks, Santa Clara County, California.
W77-08620 1018 4A

Evaporation from Seven Reservoirs in the Denver Water-Supply System, Central Colorado,
W77-08736 1018 2D

Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

Effect of Ponds and Small Reservoirs on River Runoff in the Forest-Steppe and Steppe Zones of the Volga Basin,
W77-08834 1018 4A

Optimal Filtering Techniques for Hydrological Forecasting,
W77-09111 1019 2E

Hydrooptical and Hydrobiological Investigations of the Central Parts of the Reservoir of the Krasnoyarsk Hydroelectric Station, (In Russian),
W77-09136 1019 5C

Potential Water Recreation Opportunities at Municipal and Private Forest Mountain Reservoirs,
W77-09272 1019 6B

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

Interactions Between Population Density and Water Quality Parameters During a Dinoflagellate Bloom,
W77-09494 1019 5C

Preservation of Certain Lakes as Health Resorts and Recreation Places.
W77-09576 1019 6E

A Screening Model for Flood Control Planning,
W77-09595 1019 4A

Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

The Physico-Chemical Limnology of the Mwenda River Mouth, Lake Kariba,
W77-09614 1020 5C

Chicago Plan Designed for Pollution and Flood Control.
W77-09838 1020 4A

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

Method for Roughly Estimating the Water Exchange of a Reservoir with an Aquifer Hydraulically Connected with It,
W77-10321 1021 4B

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

The Application of Hydrometeorological Data Obtained by Remote Sensing Techniques for Multipurpose Reservoir Operations,
W77-10664 1021 4A

New Solutions for Water Reservoirs in Irrigation Systems Fed by the Danube and Inland Rivers, (In French),
W77-10727 1021 3F

Sequent Peak Procedure: Minimum Reservoir Capacity Subject to Constraint on Final Storage,
W77-10781 1021 4A

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Dynamics of Trematode Fauna of Mollusks from the Kremenchug Reservoir, (In Russian),
W77-11103 1022 2H

Limnological Studies of the Ono Reservoir: Third Report, (In Japanese),
W77-11713 1023 5C

The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

Selecting and Planning High Country Reservoirs for Recreation Within a Multipurpose Management Framework,
W77-11938 1023 6B

Linear and Nonlinear Models for Peak Flow Forecasting,
W77-12083 1023 4A

A Mathematical Model for Simulating the Temperature Structure of Stratified Reservoirs and Its Use in Reservoir Outlet Design,
W77-12114 1023 5B

Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

Callahan Reservoir: III. Bottom Sediment-Water-Phosphorus Relationships,
W77-12150 1023 5G

RESIDENCE TIME
Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

RESIDENCE TIME MODEL
A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

RESIDENCY REQUIREMENTS
Reclamation Law in Litigation: Acreage and Residency Limitations on Private Lands,
W77-12889 1024 6E

RESIDENTIAL DEVELOPMENT
Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

RESIDENTIAL WATER
Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-05187 1011 6D

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

RESIDENTIAL WATER CONSERVATION
What We Can Do Before the Well Runs Dry--A Summary of WRC Report No. 35 --Residential Water conservation-Milne,
W77-08101 1017 3D

RESIDUAL CHLORINE
Evaluation of Residual Chlorine Control Systems,
W77-11708 1023 5F

RESIDUAL MUDS
Study of Mineralization in an Agricultural Soil of Residual Muds of Various Origins, (In French),
W77-10998 1022 5G

RESIDUAL OXYGEN BIOASSAY
The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

RESIDUAL SOILS
Residual Waste: Model State Legislation,
W77-04905 1010 5G

RESIDUAL TOXICITY
Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

RESIDUALS
Regional Residuals-Environmental Quality Management Models: Application to EPA's Regional Management Programs,
W77-09193 1019 5G

RESIDUALS ALLOCATION MODEL
An Environmental Residual Allocation Model,
W77-09179 1019 5B

RESIDUALS CONTROL
A Water Residuals Inventory for National Policy Analysis,
W77-09164 1019 5G

RESIDUALS DISCHARGE
A Water Residuals Inventory for National Policy Analysis,
W77-09164 1019 5G

RESIDUALS MANAGEMENT (FOOD)
Food Processing Residuals Management a Systems Approach,
W77-01813 1004 3E

RESIDUE LEVELS
Polychlorinated Biphenyls in Coastal Marine Zooplankton: Bioaccumulation by Equilibrium Partitioning,
W77-10259 1021 5C

RESIDUE MANAGEMENT
Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

RESIDUE STUDIES
Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

RESINS
Removal of Organics from Water,
W77-00924 1002 5D

RESINS

The Removal of Salt and Organic Material from Sewage Effluent by Anion Exchange Resins,
W77-01364 1003 5D

Liquid Treating System,
W77-01739 1004 5F

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

Application of Weak Base Ion-Exchange Resins for Removal of Proteins,
W77-04802 1010 5D

Purification of Resin-Forming Effluent Waters for Bakelite Manufacture--Involves Condensation to Useful Glue Resin with Ammonia Then Sodium Hydroxide,
W77-05497 1011 5D

Application of Ion Exchange Resins in the Purification of Plating Sewage. 3. Transformation of Ion Exchange Resins During their Exploitation (Primenenie ionoobmennykh smol dlya ochistki stochnykh vod gal' vanicheskikh tsekhov. 3. izmenenie svoistv ionitov v khode ekspluatatsii),
W77-05521 1011 5D

Polymeric Adsorbents for Treatment of Waste Effluents,
W77-06213 1013 5D

Resin-Coated Gravel is Used to Help Control Sand,
W77-08316 1017 8G

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

Removal of Organic Residual Matter from Effluents with the Aid of Macroporous Adsorption Resins (Entfernung von organischen Reststoffen aus Abwaessern mit Hilfe von Makroporoesen Adsorberharzen),
W77-10617 1021 5D

Electrodialysis in Water Desalination and the Influence of Ion Exchange Resin Introduction into the Apparatus,
W77-11074 1022 3A

Desalting in Australia: The Development of a New Process for Brackish Water,
W77-11117 1022 3A

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

RESISTANCE

Seasonal and Laboratory Variations in the Health of Grass Shrimp Palaemonetes Pugio: Dodecyl Sodium Sulfate Bioassay,
W77-00884 1002 5C

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

The Effect of Mass Transport on Biostimulation of Algal Growth,
W77-04155 1009 5C

Resistance of Plaice Eggs to Mechanical Stress and Light,
W77-04553 1009 5C

Ultrastructural Localization of Lead in Stigeoclonium Tenue (Chlorophycea, Ulotrichales) as Demonstrated by Cytochemical and X-ray Microanalysis,
W77-05230 1011 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

RESISTIVITY

Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

Hydrogeophysical Equivalence of Water Salinity, Porosity and Matrix Conduction in Arenaceous Aquifers,
W77-00652 1002 2F

Comparative Efficiency of Geophysical Prospecting Techniques in Water-Saturated Sands,
W77-01361 1003 2F

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-01366 1003 4B

Pinpointing Boreholes Electrically.
W77-01448 1003 2F

Detection of Subsurface Solution Cavities in Florida Using Electrical Resistivity Measurements,
W77-02517 1005 2F

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

Applications of Surface Resistivity Methods,
W77-08244 1017 2F

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-08654 1018 4B

Electrical Water Prospecting.
W77-10100 1020 2F

RESONANCE OSCILLATIONS

Wave Induced Oscillations in Harbors with Connected Basins,
W77-10884 1022 8B

RESORCINAL COMPLEX

Colormetric Determination of Zinc Via Resorcinol Complex,
W77-09128 1019 5A

RESORCINOL

Toxic Interaction of Mixtures of Two Coal Conversion Effluent Components (Resorcinol and 6-Methylquinoline) to Daphnia Magna,
W77-11528 1023 5C

RESOURCE ALLOCATION

Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

Old Answers to 'New' Problems: Henry George, Property Rights and Environmental Quality,
W77-02539 1005 6B

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

A Goal Interval Programming Model for Resource Allocation in a Marine Environmental Protection Program,
W77-08042 1016 6G

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Planning Model for Simulating Distribution and Cost in a Regional Water Supply System,
W77-10822 1022 6A

The Monte Carlo Approach to Optimization of the Operation Rules for a System of Storage Reservoirs,
W77-11604 1023 4A

The California Coastal Plan: A Critique,
W77-11855 1023 6B

RESOURCE DEVELOPMENT

The Benthic Fauna and Sediments of the Nearshore Zone Off Panama City Beach, Florida,
W77-05386 1011 2L

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Historic Sites,
W77-05412 1011 6G

Pelagic and Demersal Fish Assessment in the Lower Cook Inlet Estuary System,
W77-06829 1014 6G

Razor Clam (Siliqua Patula, Dixon) Distribution and Population Assessment Study,
W77-06830 1014 6G

New England Offshore Mining Environmental Study (Project NOMES),
W77-11660 1023 2L

The California Coastal Plan: A Critique,
W77-11855 1023 6B

RESOURCE MANAGEMENT

The Legal Framework for Public Participation in Canadian Water Management,
W77-03543 1007 6E

Scenery for Sale,
W77-05406 1011 6G

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Ecological Modeling.
W77-10841 1022 6A

RESOURCE SYSTEMS

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

RESOURCE USE DISPUTES

Judicial Decision Making and the Administration of Coastal Resources,
W77-05041 1010 6E

RESOURCES

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

Fisheries and Ecological Models in Fisheries Resource Management,
W77-04501 1009 6G

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

The Need for a National Ocean Program and Plan.
W77-09555 1019 6E

Environmental Impacts of Advanced Wastewater Treatment at Ely, Minnesota,
W77-10536 1021 5D

RESOURCES ASSESSMENT

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

RESOURCES AVAILABILITY

Environmental Assessment of the Alaskan Continental Shelf. Northeast Gulf of Alaska.
W77-11887 1023 6G

RESOURCES DEVELOPMENT

Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

Coastal Zone Bibliography: Citations to Documents on Planning, Resources Management and Impact Assessment, Second Edition,
W77-00277 1001 2L

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W77-00280 1001 5C

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W77-00888 1002 2L

Regulation of Coastal Zone Development for Fisheries Management,
W77-00891 1002 6B

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Marine Mammals.
W77-00901 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 3. Marine Birds.
W77-00903 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 5. Fish, Plankton, Benthos, Littoral.
W77-00905 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 6. Fish, Plankton, Benthos, Littoral.
W77-00906 1002 6G

The International Law of the Sea: A Case for a Customary Approach,
W77-00956 1002 6E

Water Conservancy Act.
W77-01011 1002 6E

Commission on the Conference of the Law of the Sea.
W77-01104 1003 6E

The Potential Use of Reservations to International Agreements Produced by the Third United Nations Conference on the Law of the Sea,
W77-01705 1004 6E

The Third United Nations Law of the Sea Conference: Caracas,
W77-01706 1004 6E

Analysis of Marine Mammal Remote Sensing Data,
W77-01825 1004 6G

Baseline Characterization: Marine Mammals,
W77-01826 1004 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-01827 1004 6G

Resource Assessment: Abundance and Seasonal Distribution of Bowhead and Belukha Whales - Bering Sea,
W77-01828 1004 6G

Abundance and Seasonal Distribution of Bowhead Whales and Belukha,
W77-01829 1004 6G

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-01831 1004 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-01832 1004 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-01833 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Distribution and Abundance of Sea Otters in Southwestern Bristol Bay,
W77-01836 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Watershed Management's Effects on many Resources,
W77-02109 1005 3B

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

Atlantic Outer Continental Shelf Energy Resources: Economic Implications for Long Island,
W77-02664 1006 6G

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Gulf of Alaska,
W77-03218 1007 5C

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas,
W77-03239 1007 5B

Marine Climatology of the Gulf of Alaska and the Bering and Beaufort Seas. Part III. Climatic Atlases,
W77-03240 1007 5B

Physical Oceanography of the Gulf of Alaska,
W77-03241 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Delineation and Engineering Characteristics of Permafrost Beneath the Beaufort Sea,
W77-03247 1007 2C

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Marine Environmental Problems in the Ice Covered Beaufort Sea Shelf and Coastal Regions,
W77-03250 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Yukon Delta Coastal Processes Study,
W77-03255 1007 2L

Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Faulting and Instability of Shelf Sediments: Eastern Gulf of Alaska,
W77-03259 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Historical Summary of Earthquake Epicenters in and Near Alaska,
W77-03265 1007 7C

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Development of Hardware and Procedures for In-Situ Measurement of Creep in Sea Ice,
W77-03276 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

An Oil Slick Sampling System,
W77-03909 1008 5A

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek,
W77-04197 1009 2H

Environmental Assessment of the Alaskan Continental Shelf. Volume 1. Principal Investigators' Reports April-June 1976.
W77-04200 1009 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

The Present and Future of Coasts.
W77-04462 1009 2L

Exploration and Petroleum Development of the U.S. Outer Continental Shelf: A Move Toward Self-Sufficiency,
W77-04468 1009 6G

Florida's Experience - The Way We Were - and Shouldn't Have Been,
W77-04469 1009 5G

Beach Fill Planning - Brunswick County, North Carolina,
W77-04471 1009 2L

Farmers and Fishermen: Interaction in the Coastal Zone,
W77-04473 1009 6G

People and the Sea: Future Impacts and Opportunities,
W77-04474 1009 6G

The Use of Remote Sensing for Coastal Zone Monitoring,
W77-04475 1009 5B

Thermal Pollution in the Los Angeles-Long Beach Harbor: Consequences and Alternatives,
W77-04476 1009 5B

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Onshore Policy Research and Offshore Oil: A British Perspective,
W77-04484 1009 6G

Assessing the Visual Quality of the Coastal Zone,
W77-04485 1009 6B

Education in Land Use Decision Making,
W77-04486 1009 6B

Comments on Food and Energy Resources in the Coastal Zone,
W77-04487 1009 2L

Advancing to the Rear: A Strategy of Coastal Zone Management on Eroding Shorelines (Preliminary Discussion),
W77-04488 1009 2L

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

The Management of Urban Coastal Resources,
W77-04845 1010 6B

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Potential Power-Generating Stations on the Atlantic Continental Shelf,
W77-04935 1010 6G

Nature of Potential Oil Industry Operations on the Atlantic Continental Shelf,
W77-04936 1010 6G

Wind-Driven and Thermohaline Circulation Over the Continental Shelves,
W77-04937 1010 6G

Tidal Water Movements,
W77-04938 1010 2L

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04942 1010 5C

Structure and Stability in Three Marine Benthic Communities in Southern New England,
W77-04943 1010 5C

Patterns of Larval Fish Distributions in the Middle Atlantic Bight,
W77-04944 1010 6G

Fisheries and Renewable Resources of the Northwest Atlantic Shelf,
W77-04945 1010 6G

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Bedforms on the U.S. Atlantic Continental Shelf: A Review,
W77-04947 1010 6G

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

A Process for Coastal Resource Management and Impact Assessment,
W77-05137 1011 6G

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1974.
W77-05208 1011 2L

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Process Description and Adaptation Study,
W77-05379 1011 5G

Civil Engineering Considerations,
W77-05380 1011 8A

Environmental Assessment,
W77-05381 1011 6G

Legal/Political Aspects,
W77-05382 1011 6E

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

The Value and Vulnerability of Coastal Resources: Background Papers for Review and Discussion.
W77-05390 1011 2L

A Resource Planning Process for Georgia's Coast,
W77-05391 1011 6G

The Value and Vulnerability of Coastal Beaches, Sand Dunes, and Offshore Sand Bars,
W77-05392 1011 2L

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

A Summary of Ground Water Conditions Coastal Georgia,
W77-05395 1011 2L

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Coastal Georgia's Cultural Resources,
W77-05397 1011 6G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

The Marshes,
W77-05400 1011 2L

The Open Marine and Estuarine Waters,
W77-05401 1011 2L

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Designation of Areas of Critical State Concern in Oregon,
W77-05403 1011 6G

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

Design Study of Environmental and Human Cultural Information System Needs in Urban Water Resource Development,
W77-06634 1014 6B

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 1: Marine Mammals, Marine Birds.
W77-06793 1014 6G

Baseline Characterization of Marine Mammals in the Bering Sea,
W77-06794 1014 6G

Abundance and Seasonal Distribution of Marine Mammals in the Gulf of Alaska,
W77-06795 1014 6G

Distribution and Abundance of Bowhead and Belukha Whales in the Bering and Chukchi Seas,
W77-06796 1014 6G

The Natural History and Ecology of the Bearded Seal (Erignathus Barbatus) and the Ringed Seal (Phoca (Pusa) Hispida),
W77-06799 1014 6G

An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

Identification, Documentation and Delineation of Coastal Migratory Bird Habitat in Alaska,
W77-06804 1014 6G

Identification, Documentation, and Delineation of Coastal Migratory Bird Habitat in Alaska, and the Distribution, Abundance and Feeding Ecology of Birds Associated with Pack Ice,
W77-06805 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part II: Food Web Structure and Trophic Relations of Bering Sea Avifauna (Preliminary Report),
W77-06807 1014 6G

Ecosystem Dynamics Birds and Marine Mammals. Part III: A Dynamic Numerical Marine Ecosystem Model for Evaluation of Marine Resources in Eastern Bering Sea,
W77-06808 1014 6G

Reproductive Ecology of Pribilof Island Seabirds,
W77-06809 1014 6G

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Preliminary Catalog of Seabird Colonies and Photographic Mapping of Seabird Colonies,
W77-06816 1014 6G

Review and Analysis of Literature and Unpublished Data on Marine Birds,
W77-06817 1014 6G

Migration of Birds in Alaska Coastal and Marine Habitats Subject to Influence by OCS Development,
W77-06818 1014 6G

Feeding Ecology and Trophic Relationships of Alaskan Marine Bird, and Population Dynamics of Marine Birds,
W77-06819 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

Studies of Populations, Community Structure and Colony of Marine Birds at King Island, Bering Strait Region, Alaska,
W77-06821 1014 6G

Avian Community Ecology of the Akulik - Inglutalik River Delta, Norton Bay, Alaska,
W77-06822 1014 6G

A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

Characterization of Coastal Habitat for Migratory Birds: Northern Bering Sea,
W77-06824 1014 6G

Environmental Assessment of the Alaskan Continental Shelf. Principal Investigators' Reports July-September 1976. Volume 2: Fish, Plankton, Benthos, Littoral.
W77-06825 1014 6G

The Distribution, Abundance, Diversity and Productivity of Benthic Organisms in the Bering Sea,
W77-06826 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Resources of Non-Salmonid Pelagic Fish of the Eastern Bering Sea and the Gulf of Alaska,
W77-06832 1014 6G

Baseline/Reconnaissance Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-06833 1014 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-06834 1014 6G

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-06836 1014 6G

Baseline Studies of Fish and Shellfish Resources of Norton Sound and the Southeastern Chukchi Sea,
W77-06839 1014 6G

Beaufort Sea Estuarine Fishery Study,
W77-06840 1014 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-06841 1014 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-06842 1014 6G

Reconnaissance Characterization of Littoral Biota, Beaufort and Chukchi Seas,
W77-06843 1014 6G

Ichthyoplankton of the Eastern Bering Sea,
W77-06845 1014 6G

Assessment of Pelagic and Nearshore Fish in Three Bays on Southeast Kodiak Island,
W77-06846 1014 6G

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Technical Trawl Survey of the Benthic Epifauna of the Chukchi Sea and Norton Sound.
W77-06848 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines.
W77-06850 1014 5A

The New York Bight Project - 1975; Stony Brook, Long Island, New York.
W77-06876 1014 5G

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

State Information Needs Related to Onshore and Nearshore Effects of OCS Petroleum Development,
W77-06934 1014 6G

Who's Minding the Shore. A Citizens' Guide to Coastal Management,
W77-06935 1014 5G

Dredged Material Disposal Effects and Alternatives,
W77-07345 1015 8D

Morbidity and Mortality of Marine Mammals,
W77-07405 1015 6G

Biology of the Harbor Seal, Phoca Vitulina Richardi, in the Gulf of Alaska,
W77-07406 1015 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-07407 1015 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-07409 1015 6G

The Distribution, Abundance, Diversity and Productivity of the Western Beaufort Sea Benthos,
W77-07410 1015 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-07411 1015 6G

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

Department of Water Resources,
W77-08141 1017 6E

Remote Sensing Applications in Kansas,
W77-08437 1017 4A

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

An Examination of Some Physical and Biological Impacts of Dredging in Estuaries,
W77-08918 1018 5C

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Systematic Analysis of Midwater Fishes Obtained at Deepwater Dumpsite 106 May 1974,
W77-09255 1019 5C

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Coastal Zone Management Involving the Boundary Waters of New York and Ontario,
W77-10469 1021 6E

Techniques for Measuring Stress in Sea Ice,
W77-10507 1021 2C

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10883 1022 5G

Environmental Studies of an Arctic Estuarine System - Final Report.
W77-10893 1022 2L

Introduction: Rationale, Objectives and Logistics,
W77-10894 1022 2L

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Fast Ice on the Northern Coast of Alaska,
W77-10898 1022 2C

A Summary of Observations of Birds at Oliktok Point and Notes on Birds Observed Along the Colville River--Summer 1971,
W77-10903 1022 2L

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone. Spec. Rept. III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Volume II--Appendices,
W77-10908 1022 2L

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Impacts of Coastal Dredging in San Pedro Bay, California,
W77-11027 1022 5G

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Recreational Development and Coastal Ecology - Seeking the Right Balance,
W77-11030 1022 6G

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Environmental Considerations of the Oil and Gas Production Industry in the Coastal Zone,
W77-11032 1022 5G

Impact of the Marsh Buggy on the Wetlands,
W77-11035 1022 4C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

Human Induced Stress on the Caucasian Coast of the Black Sea,
W77-11040 1022 4D

Problems in the Adoption of New Ideas and Practices,
W77-11042 1022 6B

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Progress Report. Deep Ocean Mining Environmental Study--Phase I.
W77-11053 1022 5C

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Ecological Determinants of Coastal Area Management. Volume II: Appendices,
W77-11898 1023 6G

A Study on the Effects of Maintenance Dredging on Selected Ecological Parameters in Gulfport Harbor, Mississippi.
W77-11901 1023 5C

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

State of California Coastal Management Program and Final Environmental Impact Statement.
W77-12959 1024 2L

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

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W77-12964 1024 6G

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W77-12965 1024 6G

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W77-12966 1024 6G

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Market Demand and General Location Options,
W77-05378 1011 6D

Legal/Political Aspects,
W77-05382 1011 6E

Coastal Development and Areas of Environmental Concern,
W77-05402 1011 2L

Coastal Sand Dunes,
W77-05405 1011 2L

Salt Marshes,
W77-05409 1011 2L

The Estuary - An Area of Environmental Concern,
W77-05410 1011 2L

Archaeological Sites as Interim Areas of Environmental Concern,
W77-05411 1011 6G

Historic Sites,
W77-05412 1011 6G

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

RESPIRATION

Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Effects of Selected Water Toxicants on the in Vitro Activity of Fish Carbonic Anhydrase,
W77-02730 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Regulation of Oxygen Consumption by Incident Illumination in Embryonated Ova of Atlantic Salmon Salmo Salar L.,
W77-03051 1006 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

The Influence of Temperature on the Bioenergetics of the Carnivorous Stonefly Nymph, Acroneuria California Banks (Plecoptera: Perlidae),
W77-03641 1008 5C

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

Effects of Crude Oil Ingredients on the Development and Oxygen Uptake of Hard Clam, Meretrix Lusoria (Roding), (In Korean),
W77-04052 1008 5C

Development of the Respiratory System in Herring and Plaice Larvae,
W77-04548 1009 2I

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Physiological Principles of a Plant Adaptation to Drought, (In Russian),
W77-06268 1013 2I

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Seasonal changes in the Respiration of Pumpkinseed, Lepomis Gibbosus, Correlated with Temperature, Day Length, and Stage of Reproductive Development,
W77-06768 1014 5C

Respiratory Response of Cunners to Silver,
W77-06789 1014 5C

The Electrolytic Respirometer-II. Use in Water Pollution Control Plant Laboratories,
W77-07081 1014 5D

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Responses of the Lichens Peltigera aphthosa and Cetraria nivalis and the Alga Nostoc commune to Sulfur Dioxide, Natural Gas, and Crude Oil in Arctic Alaska,
W77-07197 1015 5C

Study on Respiratory Metabolism Modifications in Acartia clausi (Crustacea: Copepoda) Populations after Passage through the Cooling Circuit of a Power Plant,
W77-07305 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

The Influence of Temperature and Time of Year on the Oxygen Uptake of the Sea Mussel Mytilus Edulis,
W77-07383 1015 5C

Respiratory Responses of Gillichthys Mirabilis to changes in Temperature, Dissolved Oxygen and Salinity,
W77-07401 1015 5C

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

The Release of Dissolved Organic Carbon from Submersed Aquatic Macrophytes: Diel, Seasonal and Community Relationships,
W77-07516 1015 5C

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Mass Mortalities of Lates (Pisces: Centropomidae) in Lake Albert,
W77-10191 1021 2H

Apparatus for the Automatic Determination of Oxygen Consumption in Fish,
W77-10217 1021 5A

The Ecology of Eelgrass, Zostera marina (L.), Fish Communities. II. Functional Analysis,
W77-10252 1021 5C

The Interaction of Nitrogen Assimilation with Photosynthesis in Nitrogen Deficient Cells of Chlorella,
W77-10732 1021 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part II - Effects on Respiration Rate,
W77-11359 1022 5C

The Effects of Lead on Algae, IV. Effects of PB on Respiration and Photosynthesis of Phaeodactylum Tricornutum (Bacillariophyceae),
W77-11361 1022 5C

Respiratory Behavior of Freshwater Fish in Conditions of Aquatic Confinement and Semi-Confinement, (In French),
W77-11410 1022 5A

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Caloric Changes Along Pulp and Paper Mill Effluent Plumes,
W77-12066 1023 5B

Disposable Electrode Chamber for Measuring Opercular Movements of Fathead Minnows,
W77-12206 1023 5A

The Effect of Laboratory Conditions on the Extrapolation of Experimental Measurements to the Ecology of Marine Zooplankton, II. Effect of Oxygen Saturation on the Respiration Rate,
W77-12784 1024 5C

RESPIROMETERS

Respirometric Determination of BOD,
W77-00095 1001 5A

The Electrolytic Respirometer - I. Factors Affecting Oxygen Uptake Measurements,
W77-03457 1007 5A

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

RESPONSE EQUATION METHOD

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

RESPONSE TIME
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

RESPONSIVE PRICING (IRRIGATION)
Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

RESURRECTION RIVER (AK)
Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

RESUSPENSION
Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

RETAINING WALLS
Optimizing Selection of Marine Retaining Walls,
W77-02072 1004 8F

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume IX. Sheet Pile Walls and T-Walls,
W77-10136 1021 8B

RETARDATION EQUATIONS
The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

RETE
Active Secretion of Oxygen into the Eye of Fish,
W77-05777 1012 5C

RETENTION
Influence of Retention on the Treatment of Effluents (Influence de la retention sur le traitement des effluents),
W77-04811 1010 5D

A Method of Evaluating a Field Water Capacity Using PF-3, (In French),
W77-06844 1014 2G

Concepts for the Reclamation of Dredged Material,
W77-07352 1015 8D

Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

Laboratory Investigation of Rainfall Retention and Transmission in Fresh Snow,
W77-09322 1019 2B

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

RETENTION AIDS (PAPERMAKING)
Influence of Retention on the Treatment of Effluents (Influence de la retention sur le traitement des effluents),
W77-04811 1010 5D

RETICULAR INLET GRATES
Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

RETRANSMISSION
Retransmission of Hydrometric Data in Canada,
W77-03111 1007 7B

RETURN FLOW
Guidelines for Sediment Control in Irrigation Return Flow,
W77-00090 1001 5G

Effect of Agricultural Drainage on Water Quality,
W77-00475 1001 5B

Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

A Comparison of Nitrogen, Phosphorus, and Carbon in Sediments and Soils of Cultivated and Noncultivated Watersheds in the North Central States,
W77-02292 1005 5G

Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

Agriculture and Clean Water (Proceedings of a Conference on Agricultural Water Pollution Control),
W77-05305 1011 5G

Control of Water Pollution from Cropland, Volume 1--A Manual for Guideline Development,
W77-06097 1012 5G

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

Cadmium Distribution in Forest Ecosystems Irrigated with Treated Municipal Waste Water and Sludge,
W77-06178 1013 5B

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

Measures for Reducing Return Flows from the Wellton-Mohawk Irrigation and Drainage District, Annual Report for FY 1976.
W77-09276 1019 4A

Mathematical Modelling of the Return Waters Runoff,
W77-10423 1021 4B

Effects of Irrigation Management on the Quality of Irrigation Return Flow in Ashley Valley, Utah,
W77-11079 1022 5B

Reducing Tailwater Runoff for Efficient Irrigation Water Use,
W77-11412 1022 3F

Fulvic Acid and Aquatic Manganese Transport,
W77-12136 1023 5B

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

Florida Installation Disperses Effluents Via Irrigation System.
W77-12436 1024 5G

Land Application of Effluents in the Rocky Mountain-Prairie Region,
W77-12489 1024 5E

Pollution Probability Estimated by Small Storm Frequency,
W77-12620 1024 5B

Quality Monitoring of Irrigation Water and Return Flows Irrigation Season 1974,
W77-12725 1024 5B

Convective Transport of Solutes in and Below the Root Zone,
W77-12732 1024 5B

System for Managing Saline and Run-off Water for Fruit and Crop Production in Arid Regions of Mexico,
W77-12741 1024 3C

Water Quality and Return Flow Study of the Oahe Unit, South Dakota,
W77-12750 1024 5G

Fate of Salts from Water and Manure in a 4-Year Field Experiment,
W77-12755 1024 5G

Detailed Return Flow Salinity and Nutrient Simulation Model,
W77-12757 1024 5G

A Conceptual Hydrosalinity Model for Predicting Salt Load in Irrigation Return Flows,
W77-12758 1024 5B

Hydrosalinity Modeling of Irrigation Return Flow in the Mesilla Valley, New Mexico,
W77-12759 1024 5B

Integrating Desalination and Agricultural Salinity Control Technologies.
W77-12761 1024 3A

RETURN (MONETARY)
Method for Evaluating Irrigation Projects,
W77-05237 1011 3F

RETURN PERIOD
An Application of Computer Graphics to Analysis of Extremes,
W77-05164 1011 2E

RETURN PERIODS
Return Periods of Hydrological Events,
W77-09958 1020 2B

REVEGETATION
Feasibility of Transplantation, Revegetation, and Restoration of Eelgrass in San Diego Bay, California,
W77-03546 1007 5G

Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Efforts in Marine Revegetation in Artificial Habitats,
W77-03949 1008 5G

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

REVERSE OSMOSIS

Wastewater Treatment by Reverse Osmosis,
W77-00081 1001 5D

Paper Chemical Reclamation and Reuse Via Reverse Osmosis,
W77-00340 1001 5D

Reverse Osmosis as an Advanced Treatment Process,
W77-00607 1002 5D

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

The Influence of the Raw Water Conditioning on the Working Data of a Reverse Osmosis Plant to Produce Ultra-Pure Water (Einfluss der Rohwasserkonditionierung auf Betriebsdaten einer Umkehrosmose-Anlage zu Reinstwassererzeugung),
W77-02355 1005 5D

Modern Separation Processes for Eliminating Waste Water and Sludge Problems in Pulp and Paper Mills (Neuzeitliche Trennungsverfahren zur Beseitigung des Abwasser und Schlammproblemes in Zellstoff- und Papierfabriken),
W77-02569 1005 5D

Application of Ultra Filtration/Reverse Osmosis Technique for the Fractionation of Cheese Whey - A Waste Disposal of the Dairy Industry,
W77-02598 1006 5D

One Pass Seawater Desalting RO Pilot Plant Evaluation,
W77-03076 1007 3A

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Reverse Osmosis for the Treatment of Metal Waste Solutions,
W77-03610 1008 5D

Sanitary-Chemical Evaluation of Cellulose Acetate Membranes Used for Desalination of Sea Water, (In Russian),
W77-04596 1009 3A

Reverse Osmosis Study on Must Wastewater Treatment,
W77-04646 1010 5D

Membrane Separation Equipment,
W77-04963 1010 3A

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

Large-Scale Reverse Osmosis Processing of Metal Finishing Rinse Waters,
W77-07207 1015 5D

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization,
W77-07792 1016 3A

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Status of Reverse Osmosis Desalination Technology,
W77-08225 1017 3A

Reverse Osmosis on Secondary Sewage Effluent: The Effect of Recovery,
W77-08523 1017 5D

New Directions in Ion Exchange,
W77-08719 1018 5D

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

System Design of a Tubular Reverse Osmosis Plant,
W77-09319 1019 5F

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Application of Reverse Osmosis and Ultrafiltration to the Purification of Pulp and Paper Industry Effluents (Zastosowanie odwroconej osmozy i ultrafiltracji do oczyszczania sciekow z przemyslu celulozowo-papierniczego),
W77-09733 1020 5D

Regular Copolyamides as Desalination Membranes,
W77-09806 1020 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-09817 1020 3A

Evaluation of Cellulose Acetate Membranes for Reverse Osmosis Separation,
W77-09863 1020 5D

Application of Membrane Processes,
W77-09929 1020 3A

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Applicability of Commercial Reverse Osmosis Units for the Quality Improvement of Brackish Water Sources in the Southern Arava,
W77-11073 1022 3A

The Role of Membrane Methods in the Desalination of Brackish Water,
W77-11076 1022 3A

Reclamation of Irrigation Field Drainage Water,
W77-11113 1022 5D

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

Application of Reverse Osmosis in the Pulp and Paper Industry,
W77-12342 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

Status of Sea Water Reverse Osmosis Membrane Process Technology,
W77-12571 1024 3A

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

Water Purifier,
W77-12690 1024 5F

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

REVETMENT TOES

Design and Performance of Rock Revetment Toes,
W77-00807 1002 8D

REVIEW

Cadmium in the Environment - III: A Toxicological and Epidemiological Appraisal,
W77-02633 1006 5B

REVIEWS

Recent Advances in Sludge Treatment and Disposal,
W77-00064 1001 5D

Bibliography on Tidal Hydraulics, Supplementary Material Compiled from May 1971 to May 1974, ES 816, Tidal Flows in Rivers and Harbors.
W77-00353 1001 2L

Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

1975 Review of the Literature on Pulp and Paper Effluent Management,
W77-01678 1004 5D

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads,
W77-02460 1005 2C

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

Medical and Biologic Effects of Environmental Pollutants. Chromium.
W77-02635 1006 5C

Medical and Biologic Effects of Environmental Pollutants. Vanadium.
W77-02637 1006 5C

Investigation of Selected Potential Environmental Contaminants: Haloethers,
W77-02643 1006 5C

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

Approaches to Controlling Erosion in Rural Areas,
W77-02782 1006 4D

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

Hydrologic Aspects of Space Investigations of the Earth's Surface (Literature Survey),
W77-03848 1008 7B

Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease,
W77-04438 1009 5C

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

Soil Moisture: Some Fundamentals,
W77-05815 1012 2G

Climatology for Geographers,
W77-06659 1014 2B

State-of-the-Art Review of Processes for Treatment and Reuse of Potato Wastes,
W77-06949 1014 5D

Literature Review of Wastewater Characteristics and Abatement Technology in the Wood and Timber Processing Industry.
W77-06951 1014 5D

Quest for an Index of Community Structure Sensitive to Water Pollution,
W77-07136 1015 5A

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Effect of Air Pollution on Pinus Strobus L. and Genetic Resistance - A Literature Review,
W77-07829 1016 5C

Measurement of Flash Floods in the United States--State of the Art,
W77-08161 1017 2E

Low Flow Analyses of Streams: Details of Computational Procedures and Annotated Bibliography,
W77-08219 1017 2E

Status of Reverse Osmosis Desalination Technology,
W77-08225 1017 3A

State of the Art in Sewage Treatment Plant Control,
W77-08515 1017 5D

Thermal and Chemical Problems of Thermal Waters, (Les Problemes Thermiques et Chimiques des eaux Thermales),
W77-08678 1018 5B

Multiphase Fluid Flow Through Porous Media,
W77-09408 1019 2G

Logging Roads and Protection of Water Quality.
W77-09725 1020 5G

Effluents of Kraft Mills and Their Toxicity for Hydrobionts (Stochnye vody sul'fat-tsellyuloznykh zavodov i ikh toksichnost' dlya gidrobiontov)),
W77-09739 1020 5C

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

Wastewater Microbiology,
W77-09893 1020 5D

Bacterial Denitrification - A Review,
W77-10373 1021 5D

Long-Range Changes,
W77-10443 1021 2A

Wastewater Management in the Solid Wood and Board Products Industries: A Review,
W77-10690 1021 5D

Some Remarks on the Statistical Theory of Extreme Values,
W77-10786 1021 2A

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Activities of the Water Resources Division of the U.S. Geological Survey in the Caribbean Area in 1976,
W77-11380 1022 9D

The Scales of Hail,
W77-11598 1023 2B

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

A Determinate Model for Runoff as a Nonlinear System,
W77-12099 1023 2E

Status of Sea Water Reverse Osmosis Membrane Process Technology,
W77-12571 1024 3A

Nonpoint Sources: State-of-the-Art Overview,
W77-12614 1024 5G

History, Status and Future of Distillation Processes,
W77-12631 1024 3A

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

Tastes and Odors in Water Supplies-A Review,
W77-12794 1024 5F

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

Review Paper: The Toxicity of Pulp and Paper Mill Effluents and Corresponding Measurement Procedures,
W77-12865 1024 5C

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

Criteria Document for PCB's,
W77-12882 1024 5A

REYNOLDS CREEK WATERSHED (IDAHO)

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

REYNOLDS NUMBER

Overland-Flow Travel Time Versus Reynolds Number,
W77-05149 1011 2E

Drag and Inertia Forces on a Cylinder in Periodic Flow,
W77-09017 1018 8B

Flow Regimes in Debris Flow,
W77-09045 1018 2J

Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

RHEOLOGY
Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

RHEOTAXIS
A Biological Monitoring System Employing Rheotaxis of Fish,
W77-06609 1014 5C

RHEOTROPISM
On the Influence of Water Currents on the Growth of Hydrorhizal Colonies, (In German),
W77-00506 1001 2I

RHINE RIVER (GERMANY)
Basf Completes Ten-Year Project for Cleaning up the Rhine,
W77-00403 1001 5D

The Effect of Different Flocculants on the Elimination of Trace Elements and Polycylic Hydrocarbons in the Water Purification Process, (In German),
W77-08256 1017 5D

RHINICHTHYS
Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

RHIZOBIA
Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

RHIZOMES
Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

RHIZOSPHERE
Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

RHODAMINE
Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

RHODE ISLAND
Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

Providence and Worcester Company V. Exxon Corporation (Right-of-Way in Land Submerged in Tidewater).
W77-03496 1007 6E

Ground-Water Pollution Near a Landfill,
W77-03991 1008 5B

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

An Electric Analog and Digital Computer Model of the Chipuxet Ground Water Aquifer, Kingston, Rhode Island,
W77-09637 1020 2F

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

RHODE RIVER (MD)
Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

RHODES GRASSES
Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

RHODESIA
Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

Observations on the Intestinal Protozoa Infecting Man in Rhodesia,
W77-09691 1020 5F

Protozoan and Helminthic Infections of the Intestines of Humans in the Inyanga Area of Rhodesia,
W77-10076 1020 5G

The Darwendale Reservoir as a Fishery,
W77-10096 1020 2H

Cloud Seeding Experimental Program in Rhodesia: 1974-75,
W77-10306 1021 3B

The Larval and Pupal Stages of Ugandatrichia Mosely (Trichoptera: Hydroptilidae) from Rhodesia, with the Description of a New Species,
W77-11557 1023 2I

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

RHODESIA (HIGHWELD REGION)
Rainfall Parameters to Predict Surface Runoff Yields and Soil Losses from Selected Field-Plot Studies,
W77-11964 1023 2B

RHODOPHYTA
Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Physiological Studies of Subtidal Red Algae,
W77-10757 1021 5C

RHONE RIVER (FRANCE)
Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

RHONE RIVER (SWITZ)
Heavy Metal Pollutants in the Sediments of the Rhone River,
W77-03651 1008 5B

RHOS-ON-SEA
The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

RHYACOPHILA-FASCIATA
Effect of Some Integral Components of Detergents on the Behaviour, Mortality and Damage of Gills of the Larvae of the Species Rhyacophila Fasciata Hag. (Trichoptera), (In Serbo-Croatian),
W77-02893 1006 5C

RICE
The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

A Study of the Recurrence of Rainfall Deficiency in Relation to Rice Crop,
W77-00746 1002 3F

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

Salinity Effects on Rice After the Boot Stage,
W77-06871 1014 3C

Persistence of Propanil, DCA, and TCAB in Soil and Water Under Flooded Rice Culture,
W77-09128 1019 5B

Fate of Fertilizer Nitrogen in a Flooded Rice Soil,
W77-09438 1019 2G

Automatic Feedback Control to Maintain Constant Soil Moisture Tension in the Study of Drought Tolerance in Rice,
W77-11229 1022 2G

Effect of P, Ca, and Mg Concentrations in Solution Culture on Growth and Uptake of These Ions by Rice,
W77-11399 1022 3F

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

Studies on Appearance Mechanism of Rice Plant Damage by Irrigation Water Polluted With Nitrogen Compounds, (In Japanese),
W77-11515 1023 5B

Growth and Mineral Composition of Rice at Various Soil Moisture Tensions and Oxygen Levels,
W77-11950 1023 3F

Yield and Nitrogen Utilization By Rice as Affected by Method and Time of Application of Labelled Nitrogen,
W77-12121 1023 3F

Soil Physical Conditions Affecting Rice Root Growth: Bulk Density and Submerged Soil Temperature Regime Effects,
W77-12179 1023 2G

Nitrogen Nutrition of Rice Plants Measured by Growth and Nutrient Content in Pot Experiments: 4. Role of the Water Regime,
W77-12858 1024 3F

RICE FERTILIZATION
Fate of Fertilizer Nitrogen in a Flooded Rice Soil,
W77-09438 1019 2G

RICE PADDY
Salinity Effects on Rice After the Boot Stage,
W77-06871 1014 3C

RICHARDS EQUATION
Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

RICHARDSON NUMBER
Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

RIETVLEI DAM (SOUTH AFRICA)
The Eutrophication Levels of Some South African Impoundments. 1. Rietvlei Dam,
W77-01391 1003 5C

Photosynthetic Bacteria in Rietvlei Dam,
W77-10204 1021 5A

RIETVLEI RESERVOIR (SOUTH AFRICA)
Mercury in Bottom Sediments of Rietvlei Reservoir,
W77-11512 1023 5B

RIFFLE INVERTEBRATES
The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

RIFFLES
Stepped-Bed Morphology in Arid Gravelly Channels,
W77-06522 1013 2E

RIGHT OF DISPOSITION
Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

RIGHT-OF-WAY
Specific Grants of Power (Condemnation and Rights-of-Way).
W77-03493 1007 6E

Providence and Worcester Company V. Exxon Corporation (Right-of-Way in Land Submerged in Tidewater).
W77-03496 1007 6E

Freedom of Beach,
W77-03584 1007 6E

Cabal v Kent County Road Commission (Reasonable Use of an Express Easement).
W77-09571 1019 6E

RIHAND RESERVOIR (INDIA)
Result of Operational Cloud Seeding Experiment Over Rihand Catchment in Northeast India,
W77-01129 1003 3B

RILL EROSION
Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

RING-BILLED GULLS
Organochlorine Poisoning of Ring-Billed Gulls in Southern Ontario,
W77-12234 1023 5C

RING OVEN TECHNIQUE
Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

RINGED SEALS
Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

RIO GRANDE RIVER
The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
W77-01956 1004 5G

Water Fowl Refuge Effect on Water Quality: I. Bacterial Populations,
W77-02513 1005 5C

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

Restless River: International Law and the Behavior of the Rio Grande,
W77-08384 1017 6E

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

Operational Applications of Satellite Snowcover Observations in Rio Grande Drainage of Colorado,
W77-10666 1021 4A

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

Rio Grande Compact.
W77-11189 1022 6E

Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

RIO GRANDE RIVER BASIN
Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

RIO GRANDE RIVER (BOLIVIA)
Study of the Rio Grande, Bolivia Highlights Some Basic Questions About Simulation,
W77-07945 1016 2A

RIO PAZ (EL SALVADOR)
The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

RIO PUERCO (NM)
Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

RIO SAN JOSE (NM)
Flood Plain Information: Rio San Jose, Pueblo of Acoma, New Mexico.
W77-09363 1019 4A

Flood Plain Information: Rio San Jose, Pueblo of Laguna, New Mexico.
W77-12593 1024 4A

RIO TULAROSA BASIN (N MEX)
Fresh-Water Resources in the Southeastern Part of the Tularosa Basin,
W77-12392 1024 4A

RIONI RIVER BASIN (USSR)
Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

RIP CURRENTS
The Causes of Erosion to Siletz Spit, Oregon,
W77-10039 1020 2L

RIPARIAN LAND
Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

RIPARIAN PLANTS
Potential for Water Yield Improvement in Arizona Through Riparian Vegetation Management,
W77-01282 1003 3B

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

Species Differences in Breakdown of Tree Leaves in Streams--Significance for Composition of Stream Communities,
W77-09056 1018 5B

RIPARIAN RIGHTS
Water and Water Rights,
W77-01119 1003 6E

Water Rights,
W77-03599 1007 6E

General State Powers over Water.
W77-03703 1008 6E

Kempf V Ellixson (Determination of Riparian Rights Where Land is Separated from Body of Water by Public Highway).
W77-03710 1008 6E

The Degree of Effectiveness of International Law as Regards International Rivers,
W77-04354 1009 6E

Water Laws of the United States: The Deficiencies and Degree of Effectiveness,
W77-04355 1009 6E

Hefferline V Langkow (Structural Rights of Adjacent Riparian Landowners),
W77-04930 1010 6E

Florida Water Resources Law, A Bibliography,
W77-05670 1012 6E

The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

Right to Accretion Built up from One Tract of Land and Extending Laterally in Front of Adjoining Tract Without Being Contiguous Thereto.
W77-07266 1015 6E

Mc Cardel V Smolen (The Rights of Riparian and Nonriparian Owners to Recreational Use of Navigable Inland Lakes).
W77-08138 1017 6E

Michigan Conference Association of Seventh-Day Adventists V Commission of Natural Resources (Private Lakes with No Obvious Public Access Closed to the Public).
W77-08149 1017 6E

Aquaculture: Problems of Implementation Under Existing Law,
W77-08369 1017 6E

Riparian Owner's Right to New Land Created by Reliction or by Accretion Influenced by Artificial Condition Not Produced by Such Owner.
W77-08398 1017 6E

Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

United States V Holmes (Waters and Subaqueous Areas Located Within Perimeters of a Military Post),
W77-09008 1018 6E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

Payne v Whiting (Upper Riparian Owner Responsible for Surface Runoff Damages).
W77-09570 1019 6E

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

De Simone V Kramer (Artificially Created Accretion Subject to Law Concerning Natural Accretion).
W77-10487 1021 6E

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

United States v Finch (Authority of Crow Tribe to Deny Non-Members Access to Its Land for Fishing Upheld).
W77-11183 1022 6E

RIPPLED BEDS
Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

RIPRAP
Design and Performance of Rock Revetment Toes,
W77-00807 1002 8D

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

RISK ANALYSIS
The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

RISK ANALYSIS MODELING
Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

RISK/BENEFIT RELATIONSHIPS
Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

RISK-BENEFIT TRADE-OFFS
Panel 'C' - Toxic Substances,
W77-02054 1004 6G

RISK-BENEFIT TRADEOFFS
Economics of Environmental Control Policies,
W77-02047 1004 6G

RISKS
Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

Environmental Quality Standards Under Conditions of Uncertainty,
W77-04858 1010 6G

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Uncertainty and the Choice of Pollution Control Instruments,
W77-06704 1014 6G

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

Environmental Policy Choice Under Uncertainty,
W77-08004 1016 6G

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

Practical use of Decision Theory to Assess Uncertainties about Actions Affecting the Environment,
W77-08927 1018 6G

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos.
W77-10959 1022 5G

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

RIVER
A Study of the Phytoplankton of the Lot River, (In French),
W77-06005 1012 5C

RIVER AVON (U.K.)
Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

RIVER BASIN COMMISSION
Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

RIVER BASIN COMMISSIONS
Evolution and Objectives of River Basin Commissions in the United States,
W77-07249 1015 6E

Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

RIVER BASIN DEVELOPMENT
Issues Related to Interfacing Water Resource Planning with Land Use Planning: Development and Application of Quantitative Procedures,
W77-00526 1002 6B

History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

Fryingpan--Arkansas Project Colorado, Final Environmental Statement,
W77-03702 1008 8A

Multipurpose Development on the Tisza River.
W77-03957 1008 4A

The State of Kansas, State Water Plan Studies, Part C, Little Arkansas River Basin,
W77-04851 1010 6B

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

Werribee River Basin: Proposals for Water Resources Management,
W77-05524 1011 4A

Hydrological Evaluation of Changes in Runoff Characteristics,
W77-06732 1014 4A

General Description of the Vistula River Project and Basic Planning Data,
W77-06733 1014 4A

Confiscation of Indian Winter's Rights in the Upper Missouri River Basin,
W77-11154 1022 6E

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

RIVER BASIN MANAGEMENT
Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

RIVER BASINS
A Reliaoility Assessment for Regional Water Quality Management,
W77-00114 1001 5G

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
W77-00428 1001 2E

Hydrogeochemistry of the Genoa River Basin, New South Wales - Victoria (Australia),
W77-00452 1001 2K

Umgeni River Catchment Analysis,
W77-01488 1003 4D

Modele D'Amenagement et De Gestion D'un Grand Bassin Hydrographique, (A Model for the Design and Management of a Large Hydrographic Basin),
W77-01887 1004 4A

Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Columbia River.
W77-01955 1004 5G

Water Pollution Control Law of 1972, Regional Impacts, Kanawha River.
W77-01975 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Delaware River Basin, (Parts 1, 2, and 3).
W77-01978 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Chattahoochee-Flint-Apalachicola, (Parts 1 and 2).
W77-01980 1004 5G

Water Pollution Control Act of 1972, Regional Impacts, Ohio River Basin, (Volumes 1 and 2).
W77-01981 1004 5G

Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

Klamath River Basin Compact.
W77-03705 1008 6E

Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-04199 1009 2C

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W77-04851 1010 6B

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W77-04856 1010 5G

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W77-04857 1010 5G

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomer ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsuite),
W77-05320 1011 2E

Water Resources of Washtenaw County, Michigan,
W77-05759 1012 6D

Comment on 'An Optimization Model for Regional Water Quality Management' by John R. McNamara,
W77-05919 1012 5G

Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Modele Mathematique de Simulation du Systeme des Ressources Hydrauliques Superficielles du Llobregat,
W77-06727 1014 4A

Conjunctive Use of the Tajo-Segura Aqueduct Surface System and the Aquifers of the La Mancha Area,
W77-06728 1014 4B

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-06915 1014 2C

Evolution and Objectives of River Basin Commissions in the United States,
W77-07249 1015 6E

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Water Supply Systems Planning, Management and Communication Through an Interactive River Basin Simulation Model,
W77-09212 1019 6B

Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

The Operational Program of Satellite Snowcover Observation at NOAA/NESS.
W77-10668 1021 4A

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

Waterlo, A Data Bank and Computer System for River Channel Networks and River Basins in Belgium,
W77-10827 1022 4A

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

River-Quality Assessments,
W77-11379 1022 5B

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

RIVER BASINS DEVELOPMENT
Systematic Approach to Water Resources Plan Formulation.
W77-00532 1002 6A

RIVER BEDS
Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

Sand and Gravel (Taking Materials from Rivers and Islands Belonging to the State).
W77-06082 1012 6E

Recreational Use of Texas Rivers--Recommendations for Adoption of the Texas Public Rivers Act,
W77-08134 1017 6E

Stochastic Aspects of Incipient Grain Motion on Riverbeds,
W77-10792 1021 2J

Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

RIVER CIMANUK
Effects of Man's Activities on Erosion in Rural Environments and a Feasibility Study for Rehabilitation,
W77-02779 1006 4C

RIVER CLASSIFICATION SYSTEMS
Water Quality Management - Quality Planning,
W77-12401 1024 5G

RIVER CREEDY (ENGLAND)
Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

RIVER DULDA VALLEY (W GERMANY)
Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

RIVER FLOW
The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

Transverse Dispersion in Meandering Channels,
W77-03644 1008 2E

Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

River Turbine,
W77-05660 1012 4A

Flood Plain Information: Redwood River at Marshall, Minnesota.
W77-06584 1013 4A

Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

Mathematical Models Resulting from Statistical Analysis of the Mean Monthly Flow,
W77-07669 1016 2E

A Multivariate Mathematical Model of Monthly River Flow,
W77-07675 1016 2E

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

Statistical Modelling of River Flow by the Monte Carlo Method and Evaluation of Distribution Parameters and Quantities,
W77-10433 1021 2E

Riparian Rights Revisited: Legal Basis for Federal Instream Flow Rights,
W77-11465 1022 6E

Detroit and St. Clair River Transient Models,
W77-11659 1023 6A

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

RIVER FORECASTING
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Flood Plain Information: Little Arkansas River and Black Kettle Creek, Halstead, Kansas.
W77-04212 1009 4A

Community Self-Help River Forecast Procedures,
W77-06086 1012 4A

RIVER FROME (ENGLAND)
Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

RIVER FROME (U.K.)
Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

RIVER HOOGLY
Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

RIVER ICINGS
Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

RIVER ISONOZO (ITALY)
Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

RIVER KHAM (INDIA)
Observation on the Hydrology of the River Kham,
W77-11769 1023 5B

RIVER LENA VALLEY (USSR)
Test Leaching of Solonchaks in the River Lena Valley (USSR), (In Russian),
W77-11413 1022 3C

RIVER LLOBREGAT (SPAIN)
Modele Mathematique de Simulation du Systeme des Ressources Hydrauliques Superficielles du Llobregat,
W77-06727 1014 4A

RIVER MEDLOCK (ENG)
Seasonal Changes of Invertebrate Populations in the Polluted River Medlock,
W77-07121 1015 5C

RIVER MOUTHS
Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

RIVER NECKAR (WEST GERMANY)
Practical Experiences in Formulating a Water Quality Model for the River Neckar,
W77-10812 1022 5B

RIVER NILE
Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

RIVER OSSAM (BULG)
The Ciliates of Two Bulgarian Tributaries of the Danube which are Polluted: The Rivers Vit and Ossam, (In French),
W77-07573 1015 5B

RIVER OTTAWA (CANADA)
Suspended Sediments from Urban Development,
W77-02788 1006 4C

RIVER PO
Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

RIVER REGULATION
Of Slime and the River,
W77-01084 1003 5B

Mathematical Models of Runoff for the Computation of Storage Reservoirs,
W77-07685 1016 4A

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

Wild Rivers Flowing Free.
W77-11161 1022 6E

RIVER RESTORATION
Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

RIVER ROTHER (ENGLAND)
Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

RIVER ROUGE (MI)
Flood Plain Information: River Rouge, Michigan, Main, Evans Ditch, and Franklin Branches in Wayne and Oakland Counties.
W77-11838 1023 4A

RIVER SEVERN (UK)
The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

RIVER SKERNE
Interconnection of Surface and Underground Water Resources in Southeast Durham,
W77-07149 1015 4B

RIVER SYSTEMS
An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Developing Optimal Operating Rules for Flood Protection Reservoirs,
W77-01174 1003 4A

The Modelling and Control of Pollution in a River System,
W77-01175 1003 5B

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

A Practical Methodology for River Quality Simulation Through the Stage-Wise Generation of Transition Function,
W77-05257 1011 5G

Optimization of a Three-Reservoir System by Dynamic Programming,
W77-06720 1014 4A

The Methods of Distribution of Water Resources in River Development Systems,
W77-06726 1014 4A

Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

Stochastic Properties of the Processes Transformed in Linear Hydrological Systems,
W77-10436 1021 2A

A Recursive Approach to Time-Series Analysis for Multivariable Systems,
W77-10807 1022 5B

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

Practical Experiences in Formulating a Water Quality Model for the River Neckar,
W77-10812 1022 5B

Wild Rivers Flowing Free.
W77-11161 1022 6E

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

RIVER TAMAR (ENGLAND)
The Effects of Low Metal Levels on a Clonal Hydroid,
W77-06491 1013 5C

RIVER TEES ESTUARY (ENGLAND)
The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Synergistic Effects of Marine Pollution,
W77-10202 1021 5C

RIVER THAMES (ENGLAND)
London's Stormwater Problem,
W77-06297 1013 5B

RIVER TRAINING
Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

RIVER TRENT (GREAT BRITAIN)
Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

RIVER TYNE ESTUARY (GREAT BRITAIN)
Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

RIVER VIT (BULG)
The Ciliates of Two Bulgarian Tributaries of the Danube which are Polluted: The Rivers Vit and Ossam, (In French),
W77-07573 1015 5B

RIVER WARMING
Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

RIVER WATER QUALITY INDICATORS
Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

RIVER WESER (WEST GERMANY)
Effects of Cadmium and Lead upon the Indigenous Heterotrophic Microflora in the Aqueous Environment of the Brackish Estuary-Water of the River Weser, (In German),
W77-01566 1004 5C

RIVER WESTER (W GERMANY)
Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

RIVER WYE
Mass Mortalities of Adult Salmon, Salmo Salar, in the R. Wye, 1976,
W77-11276 1022 5C

RIVER WYRE
Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

RIVER YENISEI (USSR)
Oil-Oxidizing Bacteria of the River Yenisei, (In Russian),
W77-07532 1015 5C

RIVER YODO (JAPAN)
Collection and Processing System of Hydrological Data During Flash Floods on the River Yodo,
W77-01934 1004 2E

RIVER YSAR ESTUARY (BELGIUM)
Shigella Research in the Sea and in an Estuary: II. Attempt to Inhibit the Adsorption of Shigaphages and Studies of Shigella on a Selective Medium, (In French),
W77-01021 1002 5B

RIVER YSTWYTH (WALES)
Seasonal and Short-Term Variations in the Concentration and Supply of Dissolved Zinc to Polluted Aquatic Environments,
W77-03778 1008 5B

RIVER ZWALM (BELGIUM)
Waterlo, A Data Bank and Computer System for River Channel Networks and River Basins in Belgium,
W77-10827 1022 4A

RIVERINE SEDIMENTS

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

RIVERS

Closed Loop Hierarchical Control for River Pollution,
W77-00051 1001 5G

Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

Hydrogeochemical Investigation of the Danube Water in Austria During the Years 1971 and 1972, (In German),
W77-00406 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

Evolutionary Aspect of the Reproductive Evology of Salmon of the Genus Salmo in Some Water Bodies of Kamchatka, (In Russian),
W77-00519 1001 2I

Hydrochemistry of the Parana River,
W77-00644 1002 2K

Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

The Sedimentary Influence of a Tributary Stream Growth of the Niobrara Delta,
W77-00824 1002 2J

The Role of Sediment Problems in Hydroelectric Development,
W77-00826 1002 4D

Patterns of Scour and Fill in Pool-Rapid Rivers,
W77-00837 1002 2J

Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

Total Mineral Dissolved Transport by World Major Rivers,
W77-01135 1003 5B

The Density of Artificial River and Estuarine Waters,
W77-01612 1004 2L

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Biological Investigations of Tuttle Creek Reservoir, Kansas,
W77-01794 1004 5C

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

Environmental Impact Assessment, Water Quality Analysis, Escambia River and Bay,
W77-01961 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River Estuary (Florida),
W77-01964 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

Maine Rivers Bibliography- A User's Manual,
W77-02224 1005 10C

Project Development and Data Programs for Assessing the Quality of the Willamette River, Oregon,
W77-02301 1005 2E

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

Erosion Phenomena in Drainage Basins Reflected by Sediment Flow in Rivers (Phenomenes D'Erosion des Bassins Versants Refletes par les Transports Solides des Cours D'Eau),
W77-02780 1006 2J

Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

Scour Around Bridge Piers,
W77-03294 1007 8B

Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

The Impact of Fargo, North Dakota's Waste Discharges on the Interstate Waters of the Red River of the North, September 1969-April 1970,
W77-03361 1007 5B

Transverse Dispersion in Meandering Channels,
W77-03644 1008 2E

Seasonal and Short-Term Variations in the Concentration and Supply of Dissolved Zinc to Polluted Aquatic Environments,
W77-03778 1008 5B

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

Computer Modeling of Erodible Flood Channels and Deltas,
W77-03993 1008 2J

Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

The Degree of Effectiveness of International Law as Regards International Rivers,
W77-04354 1009 6E

Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

Evaluating Water Quality Impacts of Small Streams on Major Urban Rivers,
W77-05249 1011 5C

The Value and Vulnerability of Fresh Water Ecosystems,
W77-05394 1011 6G

Polychlorinated Biphenyls (PCB's) in the Rivers Avon and Frome,
W77-05627 1012 5C

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

The New York Wild, Scenic and Recreational Rivers System Act,
W77-06041 1012 6E

Sand and Gravel (Taking Materials from Rivers and Islands Belonging to the State).
W77-06082 1012 6E

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Mercury Levels in the Rivers of Western Canada 1970-1976.
W77-06363 1013 5A

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Role of Ground-Water in the Formation of the Runoff and Water Chemistry of Rivers in the Lower Tunguska Basin,
W77-06506 1013 2F

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

Interconnection of Surface and Underground Water Resources in Southeast Durham,
W77-07149 1015 4B

Stochastic Properties of Daily Temperature in Rivers,
W77-07159 1015 5B

Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

Dynamics of O2 and CO2 Exchange, Photosynthesis, and Respiration in Rivers from Time-Delayed Correlations with Ideal Sunlight,
W77-07364 1015 5C

Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

Cyclical Structure of the Hydrological Series and the Nature of Individual Components,
W77-07656 1016 2E

Mathematical Models Resulting from Statistical Analysis of the Mean Monthly Flow,
W77-07669 1016 2E

Statistical Analysis Applied to the Study of the Components of a Flood Wave,
W77-07674 1016 2E

A Multivariate Mathematical Model of Monthly River Flow,
W77-07675 1016 2E

Use of Cross-Correlation Techniques for Determining the Relationship Between Groundwater Levels and Sources in the Nile Delta Area,
W77-07679 1016 2F

Time and Frequency-Domain Identification of a Casual Bivariate Stochastic Process,
W77-07680 1016 2E

Lakes Will Take the Pollution Load Off Old Father Tame,
W77-07913 1016 5G

Application of Thermal Scanning to the Study of Transverse Mixing in Rivers,
W77-08071 1016 5B

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Recreational Use of Texas Rivers--Recommendations for Adoption of the Texas Public Rivers Act,
W77-08134 1017 6E

Alternative Measures of River Channel Shape and Their Significance,
W77-08241 1017 8B

The Flooding of Rivers in the USSR and the Measures Taken to Control Ice Jams (Les Inondations Fluviales En URSS Et La Lutte Contre Les Crues Causees Par Les Embacles),
W77-08246 1017 2C

Flood Plains for Open Space and Recreation.
W77-08374 1017 6F

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

Effect of the Boundary Surface Between Sea and Fresh Waters on the Distribution of Dissolved Oxygen in the Mouth Region of the Dnieper River,
W77-08832 1018 5B

Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

Modine Manufacturing Co V Pollution Control Board of Illinois (Stream Reclassification and Effluent Variances Required by New Waste Treatment Technology),
W77-09007 1018 6E

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

Dispersion Measurement on the Danube,
W77-09040 1018 5B

Location of Major Deltas,
W77-09133 1019 2L

A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

User's Manual for the M.I.T. Transient Water Quality Network Model--Including Nitrogen-Cycle Dynamics for Rivers and Estuaries,
W77-09519 1019 5B

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Growth and Photosynthesis During the Formation of a Benthic Algal Community,
W77-09627 1020 5C

Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

Interactions Between Zinc and Suspended Sediments in the Fraser River Estuary, British Columbia,
W77-09949 1020 5B

Computation of Unsteady Flows in Rivers and Estuaries by the Method of Characteristics,
W77-09993 1020 2E

Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

A Stochastic Model for the Simulation of the Temperature of a Watercourse,
W77-10300 1021 2A

Transport Phases of Transition Metals in the Amazon and Yukon Rivers,
W77-10328 1021 2J

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

Cleansing the River Tyne,
W77-10613 1021 5D

Genetic Analysis of the Suspended Load Discharge of Mountain Rivers,
W77-10778 1021 2J

A Waste Control Program for a River with Highly Variable Concentration of Conservative Substance,
W77-10813 1022 5G

An Application of the Interregional I/O Model for the Study of the Impact of the McClellan-Kerr Arkansas River Multiple Purpose Project,
W77-10831 1022 6A

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-11484 1022 5A

Observation on the Hydrology of the River Kham,
W77-11769 1023 5B

Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

Force Measurements on a Navigable Ice Boom,
W77-11814 1023 2C

A Swampland Model,
W77-12085 1023 2E

Water Quality Management - Quality Planning,
W77-12401 1024 5G

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

Current Patterns and Distribution of River Waters in Inner Bristol Bay, Alaska,
W77-12910 1024 2L

RIVERS AND HARBORS ACT

The National Permit Program: A Polluter's Bridge over Troubled Waters,
W77-01076 1003 5G

The National Flood Insurance Program--A Model Ordinance for Implementation of its Land Management Criteria,
W77-04186 1009 6F

Authority of Secretary of Army to Deny Dredging and Filling Permit for Ecological Reasons Under Section 10 of Rivers and Harbors Act of 1899, 33 USCS Section 403,
W77-05065 1010 6E

United States V Diamond (Permanent Injunction During Administrative Procedures Justified by Developers Fill of Marshland Without Refuse Act Permit),
W77-07275 1015 6E

Federal Water Pollution Control Act Amendments of 1972 Reach Polluting Activities Occurring Above Mean-High Water Line (Comment on U. S. V. Holland).
W77-08118 1017 5G

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

United States V Commodore Club (Criminal Penalty for Filling Violation).
W77-09580 1019 6E

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Federal and Florida Law Concerning Oil Pollution,
W77-10467 1021 6E

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

Sections 9 and 10 of the Rivers and Harbors Act of 1899: Potent Tools for Environmental Protection,
W77-11470 1022 6E

RIVERS ORGANIC LOADING

Problems Related to Water Quality Over the Danube Section Between Rajka and Esztergom (A Rajka-Esztergom kozotti Duna-szakasz vizminosegi problemai),
W77-11738 1023 5B

RIVRS

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

RNA SYNTHESIS

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

ROAD CONSTRUCTION

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Sediment Runoff During Highway Construction,
W77-00847 1002 4C

Snow-Road Construction--A Summary of Technology from Past to Present,
W77-01638 1004 4C

Tables of Geometry for Low-Standard Roads for Watershed Management Considerations, Slope Staking, and End Areas,
W77-04831 1010 4D

McCay v RB Potashnick Construction Company (Absolute Liability for Damage Resulting from Natural Watercourse Obstruction).
W77-06562 1013 6E

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

Logging Roads and Protection of Water Quality.
W77-09725 1020 5G

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

Factors Influencing Natural Water Quality and Changes Resulting from Land-Use Practices,
W77-11425 1022 5C

ROAD CONSTRUCTION EFFECTS

Stream Community Response to Road Construction Sediments,
W77-10182 1021 4C

ROAD DRAINAGE

Defining the Sediment Trapping Characteristics of a Vegetative Buffer. Special Case: Road Erosion,
W77-00799 1002 4D

ROADBANKS

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

ROADS

Defining the Sediment Trapping Characteristics of a Vegetative Buffer. Special Case: Road Erosion,
W77-00799 1002 4D

State v Lucius (Sabine River Authority Regulation of Access by Water to Lake).
W77-05074 1010 6E

Logging Roads and Protection of Water Quality.
W77-09725 1020 5G

ROANOKE RIVER

Recording River and Reservoir Water Depth,
W77-09106 1019 7B

ROANOKE RIVER (VA)

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

ROANOKE (VA)

Pros and Cons of Storm Water Recharge Wells,
W77-06324 1013 5B

ROBERTS BAY (FLA)

Efforts in Marine Revegetation in Artificial Habitats,
W77-03949 1008 5G

ROCK BASS

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

ROCK CHEMISTRY

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

ROCK MECHANICS

Research with a Practical Bias.
W77-01471 1003 8E

Conference on Research in Tunneling and Excavation Technology,
W77-06885 1014 8E

ROCK PROPERTIES

Well Logging Manual.
W77-04115 1009 8G

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

Mechanical and Hydraulic Properties of Rocks Related to Induced Seismicity,
W77-07779 1016 8E

Rock Type Decides Jetting Economics,
W77-08666 1018 8C

Tests Show Jet-Drilling Hard Rock Potential,
W77-08667 1018 8E

The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

Recovery of Energy from Fracture-Stimulated Geothermal Reservoirs,
W77-12680 1024 8E

Hot Dry Rock: Widespread But Invisible,
W77-12681 1024 8E

ROCK RIVER (MINN)
Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

ROCKFILL DAMS
Change in Big Dam Plan.
W77-01476 1003 8D

Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
W77-03102 1007 8D

Preliminary Study; The Influence of Construction Step Sequence and Nonlinear Material Behavior on Cracking of Earth and Rock-Fill Dams,
W77-11240 1022 8D

The World's Highest Dams, Largest Earth and Rock Dams, Greatest Man-Made Lakes, Largest Hydroelectric Plants, Major Dams,
W77-12327 1024 8A

Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

ROCKFISH
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

ROCKFORD (ILL)
Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

ROCKS
Heat and Water Movement under Surface Rocks in a Field Soil: I. Thermal Effects,
W77-01327 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: II. Moisture Effects,
W77-01328 1003 2G

Supersaturation Phenomena and the Formation of Fluorapatite in Aqueous Suspensions of Phosphate Rock,
W77-03074 1006 2G

Studies by the Dynamic Method on the Reaction of Rock with Hot Spring Water of the Tamagawa Hot Springs in Japan,
W77-08689 1018 2K

ROCKY FLATS PLANT (COLO)
Plutonium in the Aquatic Environment Around the Rocky Flats Facility,
W77-10399 1021 5B

ROCKY MOUNTAIN ARSENAL (COLO)
Modeling Chloride Movement in the Alluvial Aquifer at the Rocky Mountain Arsenal, Colorado,
W77-09994 1020 5B

ROCKY MOUNTAIN REGION
Modeling of Noncontinuous Fort Union and Mesaverde Sandstone Reservoirs, Piceance Basin, Northwestern Colorado,
W77-00637 1002 4B

The Big Thompson Flood of 1976 in Colorado,
W77-04247 1009 2E

Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

WAMIS Abstracts, No 2,
W77-09256 1019 10C

U.B.C. Watershed Model,
W77-10969 1022 2A

Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

Land Application of Effluents in the Rocky Mountain-Prairie Region,
W77-12489 1024 5E

ROCKY SHORES
Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

RODENTS
Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

RODOPHYTA
Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

ROGUE DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

ROKYTNA CREEK (CZECK)
The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

ROLLER CONE BITS
Recent Advances in Rotary Drill Bits,
W77-08649 1018 8G

ROLLING EASEMENT
Public Access to Receding Beaches,
W77-10462 1021 6E

ROMAN LAW
Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

ROMANIA
Considerations on the Waste Water Quality and Treatment at the Antibiotics Plant from Jassy, (In Hungarian),
W77-01580 1004 5D

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

Erosion Phenomena in Drainage Basins Reflected by Sediment Flow in Rivers (Phenomenes D'Erosion des Bassins Versants Refletes par les Transports Solides des Cours D'Eau),
W77-02780 1006 2J

Microbiological and Chemical Study of Water in the Baia de Aries Mine, (In Romanian),
W77-04077 1008 5A

Statistical Analysis Applied to the Study of the Components of a Flood Wave,
W77-07674 1016 2E

Physical and Hydrophysical Properties of the Soils at the Greenhouse Unit Isalnita-Dolj, (In Rumanian),
W77-09488 1019 2G

ROMANIA (PANNONIAN DEPRESSION)
Study of the Chemical and Gaseous Composition of Thermal Waters of the Eastern Part of the Pannonian Depression (Considerations sur la Composition Chimique et Gazeuse des eaux Thermales de la Partie Orientale de la Depression Pannonique (Roumanie)),
W77-08688 1018 2K

ROOF PONDING
Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

ROOFING MATERIALS
Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

ROOFS
Laboratory and Field Investigations of New Materials for Roof Construction (Progress Report),
W77-00736 1002 8G

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

ROOSEVELT COUNTY (N MEX)
Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

ROOT AGING
Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

ROOT CORTEX
Water Transport in the Soil-Root System: Transient Analysis,
W77-01147 1003 2G

ROOT DEVELOPMENT
Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Minimal Leaching with Varying Root Depths of Alfalfa,
W77-03066 1006 3C

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

Anatomical Response of Potato Stems and Roots to Soil Moisture and Rates of Fertilizer,
W77-11398 1022 3F

Soil Physical Conditions Affecting Rice Root Growth: Bulk Density and Submerged Soil Temperature Regime Effects,
W77-12179 1023 2G

ROOT DISTRIBUTION
Maximizing Stomatal Control and Root System to Optimize Water-Use Efficiency in Soybeans,
W77-02077 1005 3F

Copper Sulfate Fights Root Growth in Sewer Systems,
W77-06991 1014 8G

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

ROOT GROWTH
Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

ROOT RIVER (MINN)
Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

ROOT SYSTEMS
Water Transport in the Soil-Root System: Transient Analysis,
W77-01147 1003 2G

Soil Nitrate Loss During Irrigation: Enhancement by Plant Roots,
W77-01268 1003 3F

Water-Retaining Capacity of the Roots of Several Forest Tree Species, (In Bulgarian),
W77-01504 1003 2I

Root System of the Pear in Arid Zones, (In Russian),
W77-01595 1004 2I

Maximizing Stomatal Control and Root System to Optimize Water-Use Efficiency in Soybeans,
W77-02077 1005 3F

Calculation of Rate of Nutrient Uptake by Growing Roots,
W77-03061 1006 2I

Simulation of Field Water Uptake by Plants Using a Soil Water Dependent Root Extraction Function,
W77-03315 1007 2G

Copper Sulfate Fights Root Growth in Sewer Systems,
W77-06991 1014 8G

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

Establishing Artificial Pastures and Meadows in the Chartak Adyrs of the Fergana Valley, (In Russian),
W77-09498 1019 2I

The Resistance of Intact Maize Roots to Water Flow,
W77-10271 1021 2G

Cavitation and Resistance to Water Flow in Plant Roots,
W77-11106 1022 2I

Water Transport from Roots to Soil,
W77-11391 1022 2G

Utilization of Sedimentary Ammonia by Potamogeton Nodosus and Scirpus,
W77-11479 1022 5C

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

ROOT ZONE
Water Transport in the Soil-Root System: Transient Analysis,
W77-01147 1003 2G

Simulation of Root-Zone Water and Deep Seepage to a Water Table,
W77-02295 1005 2G

Changes in the Quality of Soil Water for Three Years Following Burning,
W77-05212 1011 4C

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

Some Measures of Reducing Leaching Loss of Nitrates Beyond Potential Rooting Zone I. Proper Coordination of Nitrogen Splitting with Water Management,
W77-06232 1013 3C

Influence of Crop Management Practices on Nutrient Movement Below the Root Zone in Nebraska Soils,
W77-09279 1019 2G

Agrotechnical Principles for Water and Salinity Control in the Root Zone,
W77-11064 1022 3C

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

Diffusion and Mass Flow of Nitrate-Nitrogen into Corn Roots Grown Under Field Conditions,
W77-12177 1023 3F

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

Evapotranspiration and Soil Water Movement Beneath the Root Zone of Irrigated and Nonirrigated Millet (Panicum Miliaceum),
W77-12315 1024 2D

ROOTED AQUATIC PLANTS
Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

Analysis of the Macrofauna-Community on Stratiotes Vegetations,
W77-09489 1019 5C

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

ROOTSTOCKS
Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

ROS RIVER (USSR)
Microbiological Characteristics of the Ros/ River and Some of Its Tributaries, (In Russian),
W77-04093 1008 5C

ROSARIO BEACH (FIDALGO ISLAND WASHINGTON)
Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

ROSS ICE SHELF
A Note on the Contribution of Rime and Surface Hoar to the Accumulation on the Ross Ice Shelf, Antarctica,
W77-02469 1005 2C

Electrical Resistivity Measurements on the Ross Ice Shelf,
W77-08051 1016 2C

ROSWELL
Chemical Dynamics of a Confined Limestone Aquifer,
W77-06399 1013 2F

ROSWELL BASIN (NM)
Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

ROTARY DRILLING
Sampling: One Key to Drilling Success,
W77-04279 1009 8G

Sparkle Plenty,
W77-04287 1009 8G

One Good Idea Spurs Another.
W77-06860 1014 8C

New Rig Concept Uses Continuous Drill String.
W77-07298 1015 8G

New Lost Circulation Remedy is Easy to Use.
W77-07299 1015 8G

Kelly Care Extends Service Life,
W77-08311 1017 8C

Better Protection for Casing and Tool Joints,
W77-08315 1017 8G

Air, Mist and Foam Drilling, A Look at the Latest Techniques, Part 2,
W77-08326 1017 8C

Cement-Mud Spacer System Improves Illinois Wells,
W77-08647 1018 8F

Drill String Makeup, Past, Present, Future,
W77-08648 1018 8C

Recent Advances in Rotary Drill Bits,
W77-08649 1018 8G

Rock Type Decides Jetting Economics,
W77-08666 1018 8C

Tests Show Jet-Drilling Hard Rock Potential,
W77-08667 1018 8E

Air, Mist and Foam Drilling, A Look at Latest Techniques,
W77-08669 1018 8C

Mud Design to Minimize Rock Impairment Due to Particle Invasion,
W77-10513 1021 8G

Down-Hole Mud Motor Passes Field Test.
W77-10514 1021 8C

Auxiliary Cementing Materials Contribute to Successful Jobs,
W77-10524 1021 8F

How to Improve Drilling Economics by Using a Shock Absorber,
W77-10526 1021 8G

Cementing Oil and Gas Wells, Part 4,
W77-10528 1021 8F

Cementing Oil and Gas Wells, Part 5,
W77-10529 1021 8F

Ingenuity Sparks Drilling History,
W77-12669 1024 8G

Metallurgical Developments Aid Bits, Tool Joints,
W77-12670 1024 8G

Effects of Drilling Mud on Rock Bit Performance,
W77-12672 1024 8G

New Technology: New Eccentric Drill Bit.
W77-12677 1024 8G

ROTARY DRUM MICROSCREENS
New Development.
W77-11718 1023 5D

ROTARY FILTERS
Two New Methods of Sludge Removal,
W77-07224 1015 5D

ROTARY PRECOAT FILTRATION
Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

ROTARY SPRINKLERS
Governor for Rotary Sprinkler,
W77-01755 1004 3F

ROTATING BIOLOGICAL CONTACTOR
Fixed Biological Surfaces -- Wastewater Treatment: The Rotating Biological Contractor,
W77-02571 1005 5D

Acid Mine Drainage Treatment with the Rotating Biological Contactor,
W77-05210 1011 5D

The Rotating Biological Contactor for Biochemical Ferrous Iron Oxidation in the Treatment of Coal Mine Drainage,
W77-05337 1011 5D

ROTATING BIOLOGICAL CONTACTORS
Method for the Treatment of Wastewater,
W77-12936 1024 5D

ROTATING BIOLOGICAL DISCS
Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

ROTATING BIOLOGICAL FILTERS
The Rotating Biological Filter,
W77-03282 1007 5D

ROTATING DISCS
The Treatment of Wastewater with a Rotating Disc Unit, (Behandeling van Afvalwater met die Draaiskyfeenheid).
W77-01455 1003 5D

ROTATING FLIGHTED CYLINDER
Application of the Rotating Flighted Cylinder to Livestock Waste Management,
W77-09795 1020 5D

ROTATING FLIGHTED CYLINDERS
A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

ROTATIONS
Influence of Long Term Tillage, Crop Rotation, and Soil Type Combinations on Corn Yield,
W77-09969 1020 3F

Nitrogen and Irrigation in Forage Crop Rotations, (In German),
W77-12996 1024 3F

ROTENONE
Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Proportions of a Yellow Perch Population Surfacing After a Rotenone Treatment,
W77-11348 1022 5C

ROTIFERS
The Vertical Distribution of Plankton Rotifers in a Small Alpine Lake with a Sharp Oxygen Depletion (Lunzer Obersee),
W77-07456 1015 5C

Characteristics of the Zooplankton of the Lower Reaches of the Irgiz and Turgay Rivers, (In Russian),
W77-09940 1020 5C

Transfer of the Chlorinated Hydrocarbon PCB in a Laboratory Marine Food Chain,
W77-11356 1022 5B

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

ROTOR AERATORS
The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

ROTORS
Sewage Surface Aerator - Without Axial Thrust Thus Reducing Vibration from Waves.
W77-02342 1005 5D

ROTORUA (NEW ZEALAND)
Nitrogen and Phosphorus Analyses of Rainfall at Rotorua, New Zealand,
W77-08242 1017 5A

The Fallout of Nitrogen and Phosphorus Compounds from the Atmosphere at Ngapuna, Near Rotorua, New Zealand,
W77-08243 1017 5A

ROUGE RIVER (MICH)
Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

ROUGHNESS COEFFICIENT
Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

ROUGHNESS FUNCTION
Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

ROUGHNESS (HYDRAULIC)
Free Surface Flow in a Channel of Large Relative Roughness,
W77-00649 1002 2E

Flow in Corrugated Pipes,
W77-03744 1008 8B

Manning's Roughness for Artificial Grasses,
W77-04255 1009 4A

Brink Depth Method in Rectangular Channel,
W77-09695 1020 8B

ROUGHNESS (HYDRAULICS)
Roughness Effects on the Flow Direction Near Curved Stream Beds,
W77-09038 1018 8B

ROUTING
Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

ROUTING MODEL
The Operational Water Quantity Model,
W77-09204 1019 4A

ROW DIRECTION
Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

ROW SPACING
Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

RUACANA SCHEME (SWA)
Tunnelling Work for the Ruacana Scheme,
W77-09688 1020 8A

RUBBER
Asphalt-Rubber Mixtures for Seepage Control,
W77-08195 1017 4A

Development of a Low Cost Asphalt-Rubber Membrane for Water Harvesting Catchments and Reservoir Seepage Control,
W77-08601 1018 3B

RUBBER PROCESSING INDUSTRY
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

RUBBLE-MOUND BREAKWATERS
Stability of Rubble-Mound Breakwater Lahaina Harbor, Hawaii; Hydraulic Model Investigation,
W77-02940 1006 8B

Stability of Rubble-Mound Breakwater Jubail Harbor, Saudi Arabia; Hydraulic Model Investigation,
W77-09984 1020 8B

RUBIDIUM
Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

RUDD
Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

RUDYAK SOILS
Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
W77-00511 1001 2G

RULEMAKING
Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

RUM JUNGLE (AUSTRALIA)
Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

RUNNELS COUNTY (TEX)
Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

RUNNING WATERS
Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

RUNOFF
The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Mapping Runoff-Producing Zones in Humid Regions,
W77-00368 1001 4A

Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

The Influence of Land Use on Stream Nutrient Levels,
W77-00725 1002 5C

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

Sediment Yields from a Mississippi Delta Watershed,
W77-00784 1002 4D

Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

Nutrients Lost in Debris and Runoff Water From a Burned Chaparral Watershed,
W77-00810 1002 4C

Man's Effect on the Quality of Our Water,
W77-00974 1002 5C

Future Direction of Urban Water Models,
W77-01071 1003 5G

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

The Editor's Notebook: About Discharge Regulations.
W77-01541 1003 5G

1975 Annual Report of the Freshwater Biological Investigation Unit.
W77-01804 1004 5C

Hydrological and Hydraulical Conceptual Models Applicable to Overland and River Transport Modeling,
W77-02036 1004 2A

Maryland Highway Drainage Study: Volume I - Summary Report,
W77-02490 1005 4C

Maryland Highway Drainage Study: Volume II - A Comparison of Maryland Highway Drainage Practices With Those of Other Agencies,
W77-02491 1005 4C

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

Effect of Industrial Activity on River Runoff in the Central Ural,
W77-04258 1009 4C

Quantity Aspects of Urban Stormwater Runoff,
W77-04732 1010 4A

Impact of Stormwater Runoff on Receiving Water Quality,
W77-04734 1010 5B

Introduction to Urban Stormwater Runoff Models,
W77-04735 1010 5B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-04736 1010 2E

Selected Case Studies Using Stormwater Management Models -- Quanitity aspects,
W77-04740 1010 2E

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

An Evaluation of the Practicality and Complexity of Some Rainfall and Runoff Time Series Models,
W77-05179 1011 2A

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomen ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsui-),
W77-05320 1011 2E

A Characterization of Urban Stormwater Runoff in Boulder, Colorado.
W77-05369 1011 5B

A Study of Runoff from Small Rural Watersheds in Response to Completed and Proposed Land Use Changes,
W77-05728 1012 5B

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

Multistation, Multiyear Synthesis of Hydrologic Time Series by Disaggregation,
W77-06008 1012 2A

Runoff and Erosion,
W77-06236 1013 4D

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Hydrological Evaluation of Changes in Runoff Characteristics,
W77-06732 1014 4A

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne:. Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Methods for the Mathematical Description of the Structure of River Runoff Variations,
W77-07652 1016 2E

Spectral Analysis of the Structure of Hydrological Series,
W77-07653 1016 2E

Elements of Runoff Periodicity in Tasks of Modelling,
W77-07655 1016 2E

Cyclical Structure of the Hydrological Series and the Nature of Individual Components,
W77-07656 1016 2E

The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

Multidimensional Statistic Modelling of Hydrological Processes on the Basis of Structural Analysis of the Empirical Hydrographs of Runoff,
W77-07662 1016 2A

Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

Flood Frequency Studies of Rivers in the Federal Republic of Germany,
W77-07670 1016 2E

Finding Regularities in Long-Term Streamflow Fluctuations by Analysis of Hydrological Ensembles,
W77-07676 1016 2E

Mathematical Models of Runoff for the Computation of Storage Reservoirs,
W77-07685 1016 4A

Runoff, Erosion, and Nutrient Movement from Interrill Areas,
W77-07766 1016 2J

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

Computer Program for Reservoir-Water Budgets,
W77-08464 1017 4A

The Hydrology of a Small Catchment Basin at Samaru, Nigeria: IV: Assessment of Soil Erosion Under Varied Land Management and Vegetation Cover;
W77-08698 1018 4D

Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

Effect of Ponds and Small Reservoirs on River Runoff in the Forest-Steppe and Steppe Zones of the Volga Basin,
W77-08834 1018 4A

Effect of Agricultural and Silvicultural Practices on the Runoff from Drainage Basins of the Nizhnedevitskaya Hydrologic Station,
W77-08835 1018 4C

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

Multivariate Distributions in Hydrology and River Regulation,
W77-09029 1018 2E

Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

Generalized Method for Evaluating Urban Storm Water Quality Management Storage/Treatment Alternatives,
W77-09188 1019 5D

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Sensitivity of Some Runoff Models to Errors in Rainfall Excess,
W77-09339 1019 2A

The Application of a Deterministic Model to a Semiarid Basin (Application du Modele a Discretisation Spatiale a un Bassin Versant Semi-Desertique),
W77-10424 1021 2A

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

A Hydrological Model with Physically Realistic Parameters,
W77-10428 1021 2A

Identification of Structure and Parameters of Hydrologic Runoff-Models (Identifikation von Struktur und Parametern hydrologischer Abflussmodelle),
W77-10594 1021 2E

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

Utilization of LANDSAT Monitoring Capabilities for Snowcover Depletion Analysis,
W77-10670 1021 2C

Operational Use of LANDSAT Imagery for the Estimation of Snow Areal Extent,
W77-10671 1021 7B

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

Hydrology of Small Watersheds in Wisconsin's Driftless Area,
W77-11209 1022 2A

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

Hydrologic Response and Nutrient Concentrations Following Spring Burns in an Oak-Hickory Forest,
W77-11613 1023 4C

Optimal Prediction of Ponding,
W77-11798 1023 2G

Rainfall Parameters to Predict Surface Runoff Yields and Soil Losses from Selected Field-Plot Studies,
W77-11964 1023 2B

Problems of Applying the Conceptual Model Developed for the Flat Catchments of Hungary,
W77-12087 1023 2A

Representation of a Catchment by a Network of Reservoirs,
W77-12088 1023 2A

Physico-Statistical Model of Rainfall Flood Formation and Determination of Its Parameters,
W77-12100 1023 2A

Mathematical Model of Spring Runoff Formation,
W77-12101 1023 2A

Mathematical Model of the Hydrometeorological Regime Formation of a River Basin,
W77-12102 1023 2A

Mathematical Modelling of the Formation of River Runoff in Mountain Drainage Basins,
W77-12103 1023 2A

A Physically-Based Model to Predict Runoff Under Variable Rain Intensity,
W77-12182 1023 4A

Effects of Soil, Cover Crop, and Nutrient Source on Movement of Soil, Water, and Nitrogen Under Simulated Rain-Slope Conditions,
W77-12309 1024 2B

Runoff and Soil Erosion on Slopes Depending on Cultivated Crops, (In Russian),
W77-12587 1024 2J

RUNOFF COEFFICIENT

Remote Sensing Techniques for Prediction of Watershed Runoff,
W77-08075 1016 7B

RUNOFF CONTRIBUTING AREAS

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

RUNOFF CONTROL

Some Consequences of Area Wide Runoff Control Strategies in Urban Watersheds,
W77-01947 1004 4D

RUNOFF CONTROL FACILITIES

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

RUNOFF EFFICIENCY

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

RUNOFF FILES

Runoff Files for Flood Hydrograph Simulation,
W77-03748 1008 2E

RUNOFF FORECASTING

Special Watershed Projects.
W77-05292 1011 4D

A Stochastic Approach to Snowmelt Runoff Forecasting,
W77-05323 1011 2C

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

Computer Simulation of Snowmelt,
W77-05735 1012 2C

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

Prediction Models for Monthly Runoff,
W77-11437 1022 4A

Estimation of Parameters of a Uniformly Nonlinear Surface Runoff Model,
W77-11985 1023 2E

Storm Water Management Model: Level I - Preliminary Screening Procedures,
W77-12476 1024 5B

RUNOFF INITIATION TIMES

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

RUNOFF MECHANICS

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

RUNOFF-PRODUCING ZONES

Mapping Runoff-Producing Zones in Humid Regions,
W77-00368 1001 4A

RUNOFF QUALITY

Penn State Urban Runoff Model--User's Manual,
W77-07797 1016 4D

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

RUNOFF REGULATION

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

RURAL AREA

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

RURAL AREAS

Use of Punch Cards for Accumulating and Analyzing Data on the Sanitary-Epidemiological State of Rural Populated Areas, (In Russian),
W77-01600 1004 5G

Effects of Man on the Interface of the Hydrological Cycle with the Physical Environment.
W77-02771 1006 4D

Man's Impact on Erosion in the Rural Environment: The Indian Experience,
W77-02778 1006 4C

Effects of Man's Activities on Erosion in Rural Environments and a Feasibility Study for Rehabilitation,
W77-02779 1006 4C

Approaches to Controlling Erosion in Rural Areas,
W77-02782 1006 4D

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

Prediction of Erosion Intensification by Man,
W77-02784 1006 4C

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Private Sewage Disposal in Maine.
W77-06371 1013 5G

Seasonal and Wavelength Dependence of Urban/Rural Radiance in Iowa,
W77-06514 1013 7B

Inorganic Contaminants in Rural Drinking Waters,
W77-07372 1015 5A

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

Joint Municipal Corporation Waste Water Treatment,
W77-07920 1016 5D

Water and Waste Water Engineering for Low Income Communities in Developing Countries,
W77-07939 1016 5G

Rural Water Districts in Kansas.
W77-09135 1019 6D

Rural Domestic Water System Peak Flows and Design Innovations,
W77-10176 1021 8B

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

Simulating Overland Flow on Hillslopes with a Kinematic Cascade,
W77-12108 1023 2A

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

RURAL RESIDENTIAL WATER DEMAND
Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

RURAL ROADS
Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

RURAL WATER DISTRICTS (KAN)
Rural Water Districts in Kansas.
W77-09135 1019 6D

RUSHES
Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

RUSSIAN THISTLE
Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

RUTHENIUM
Environmental Behaviour of the Binuclear Oxygen-Bridged Nitratonitrosylruthenium Complex,
W77-10392 1021 5C

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

RUTHENIUM RADIOISOTOPES
Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

RYAN GULCH BASIN (COLO)
Relation of Erosion to Sediment Yield,
W77-04986 1010 2J

RYAZAN OBLAST (USSR)
Organization of Work on the Sanitary Protection of Water Bodies in the Ryazan Oblast, (In Russian),
W77-01578 1004 5D

RYBINSK RESERVOIR (USSR)
Volatile Fatty Acids in Bottom Deposits of the Rybinsk Reservoir, (In Russian),
W77-00126 1001 5C

Bacterial Growth on Dissolved Organic Compounds in Fresh-Water Reservoirs, (In Russian),
W77-08498 1017 5A

RYEGRASS
Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

Effects of Condensed Phosphates on Plant Growth and Phosphorus Uptake,
W77-09307 1019 3F

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

SAALE RIVER (E. GERMANY)
Methods of Balancing and Calculating the O2 Balance of the Middle Course of the Saale River, (In German),
W77-02911 1006 5A

The Biomass and Production of the Macrobenthos of the Middle Course of the Saale River, (In German),
W77-02912 1006 5C

The Groundwater Fauna of the Saale River Drainage Area (Thuringia), (In German),
W77-02913 1006 5C

SAALE RIVER (EAST GERMANY)
The General Character of the Water of the Middle of the Saale River, (In German),
W77-02910 1006 5B

Studies on the Algal Populations of the Saale River Near Jena: II. Comparison of the Seasonal Population Dynamics Above and Below the City, (In German),
W77-05606 1012 5C

SABINE RIVER (TEXAS)
The Importance of Monitoring Change,
W77-09591 1019 5A

SAC RIVER (MO)
Pre-Impoundment Biological Survey of Stockton Reservoir-Sac River, Missouri, August 1968,
W77-01793 1004 5C

SACCHARIDES
Chemical Composition of Blue-Green Algae in the Kremenchug Reservoir, (In Russian),
W77-02254 1005 5C

SACCHAROMYCES
Yeasts and Fungi in Marine Environments, (In French),
W77-02904 1006 5B

SACO RIVER (ME)
Flood Plain Information: Saco River, Fryeburg, Maine.
W77-11847 1023 4A

SACONY CREEK BASIN (PA)
Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

SACRAMENTO COUNTY (CALIF)
Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

SACRAMENTO RIVER
Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

SACRAMENTO RIVER (CA)
Flood Plain Information: Sacramento River, Anderson and Olinda Creeks, and Spring Gulch, Anderson, California.
W77-06586 1013 4A

SACRAMENTO RIVER (CALIF)
Determination of Channel Capacity of the Sacramento River between Ordbend and Glenn, Butte and Glenn Counties, California,
W77-04977 1010 2E

SACRAMENTO-SAN JOAQUIN DELTA (CALIF)
Plan for Improvement of the Delta Levees.
W77-03550 1007 4A

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

SACRAMENTO VALLEY (CALIF)
Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

SADDLE RIVER (NJ)
Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

SAFE DRINKING WATER ACT
Regulations: Reactions and Resolution,
W77-00615 1002 5G

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

SAFE DRINKING WATER ACT OF 1974
Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

SAFE WATER DRINKING ACT
Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

SAFE YIELD
Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

SAFETY
System for Evaluation of the Hazards of Bulk Water Transportation of Industrial Chemicals,
W77-02206 1005 5G

Mechanical Mole Burrows Sewer Tunnel,
W77-03397 1007 8C

Environmental Impacts of High Level Radioactive Waste Disposal,
W77-09473 1019 5C

SAFETY FACTORS
Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Regulations: Reactions and Resolution,
W77-00615 1002 5G

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Hydrodynamic Damping and 'Added Mass' for Flexible Offshore Platforms,
W77-05375 1011 5G

Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

SAFFORD VALLEY (ARIZ)
Effects of Changes in an Alluvial Channel on the Timing, Magnitude, and Transformation of Flood Waves, Southeastern Arizona,
W77-00869 1002 2E

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

SAGEBRUSH
Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Concentration and Distribution of Elements in Plants and Soils Near Phosphate Processing Factories, Pocatello, Idaho,
W77-09444 1019 5B

SAGINAW BAY
Saginaw Bay Water Circulation,
W77-12326 1024 2H

SAGINAW BAY (LAKE HURON)
Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

SAGINAW BAY (MICH)
Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

SAGINAW RIVER
Saginaw Bay Water Circulation,
W77-12326 1024 2H

SAHARA
The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Hydrology of the Sahara,
W77-12834 1024 6D

SAHARA DESERT
Stabilization of Sand Dunes in the West Sahara,
W77-10074 1020 4A

SAHEL
Providing for Provident Dogons,
W77-01896 1004 3B

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

Dynamics of Deserts and Drought in the Sahel,
W77-05943 1012 2D

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

Life At The Desert's Edge.
W77-09305 1019 4C

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

Arid Lands of Sub-Saharan Africa: Appendices to the Staff Final Report.
W77-11122 1022 4C

SAHEL (AFRICA)
The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

SAHEL REGION (AFRICA)
African Rainfall and its Relation to the Upper Air Circulation,
W77-11820 1023 2B

SAINT JOHN RIVER (NEW BRUNSWICK CANADA)
The Saint John River System Models: A Case Study,
W77-01178 1003 5G

SAINT LAWRENCE RIVER
Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

SALAMANDERS
Neoplastic and Possibly Related Skin Lesions in Neotenic Tiger Salamanders from a Sewage Lagoon,
W77-08729 1018 5C

SALDANHA BAY
Quenching Saldanha's Thirst.
W77-01473 1003 3E

SALDANHA BAY (SOUTH AFRICA)
Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Metals in Organisms from Saldanha Bay and Langebaan Lagoon Prior to Industrialization,
W77-10205 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

SALICYLANILIDE
Evaluation of the Toxicity of Substances Being Released into Water Bodies for the Early Development of Fish, (In Russian),
W77-00189 1001 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

SALINAS RIVER (CALIF)
Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

SALINE AQUIFERS
Effect of Dip on the Subsurface Storage or Disposal of Fluid in Saline Aquifers,
W77-08204 1017 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-08205 1017 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-10264 1021 4B

SALINE BRANCH WATERSHED (ILL)
An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

SALINE HEADS
Energy Relations of Density-Current Flows: An Experimental Investigation,
W77-06317 1013 2J

SALINE LAKES
Isolation and Identification of Blue-Green Algae Producing Muddy Odor Metabolites, Geosmin, and 2-Methylisoborneol, in Saline Lakes in Manotoba,
W77-00185 1001 5A

A Comparative Study of the Limnology of Three Maar Lakes in Western Victoria (Australia), 1. Physiography and Physicochemical Featues,
W77-00447 1001 2H

Vegetation and Soil of Saline Depressions Near Najaf, Central Iraq,
W77-02116 1005 3C

Chemistry of Salt Lakes and Other Waters in the Sub-Humid Regions of Tasmania (Australia),
W77-03284 1007 2H

Stability of Ionic Proportions in Five Salt Lakes in Victoria, Australia,
W77-03285 1007 2H

Chemical Composition of Some Inland Surface Waters in South, Western, and Northern Australia,
W77-03286 1007 2K

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Content of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

SALINE SEEP
Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

SALINE SEEPS

Field Mapping Soil Conductivity to Delineate Dryland Saline Seeps with Four-Electrode Technique,
W77-01622 1004 2G

SALINE SOILS

Field Mapping Soil Conductivity to Delineate Dryland Saline Seeps with Four-Electrode Technique,
W77-01622 1004 2G

Sodium Relations in Desert Plants: 5. Cation Balance When Grown in Solution Culture and in the Field in Three Species of Lycium from the Northern Mojave Desert,
W77-02178 1005 3C

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Soil Water Extraction by Alfalfa,
W77-03064 1006 3C

Factors of Soil Salinization During Irrigation in the Turan Lowland, (In Russian),
W77-03124 1007 2G

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

An Electrical Conductivity Probe for Determining Soil Salinity,
W77-04763 1010 2G

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Studies on Soil Salinization and Alkalization as Affected by Irrigation Waters, (In Romanian),
W77-05190 1011 3C

Leaching of a Highly Saline-Sodic Soil,
W77-05788 1012 2G

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

Soils of the Tedzen-Hurghab Interfluvial Area, (In Russian),
W77-05960 1012 2G

Model of Salt Flow in Soil with a Source-Sink Term,
W77-07761 1016 2G

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Change of Salinity with Different Distances Between Drains Under Conditions of Northern Mugan, (In Russian),
W77-09630 1020 3C

Surface Modifications for Water Management and Salinity Control in a Nonirrigated Area,
W77-11394 1022 3C

Test Leaching of Solonchaks in the River Lena Valley (USSR), (In Russian),
W77-11413 1022 3C

A Study of Salt Leaching by Ponding and Sprinkling in Unsaturated Soil Columns,
W77-11444 1022 3C

Assessment of the Salinization of Irrigated Soils of Cotton Fields by Aerial Photos, (In Russian),
W77-11475 1022 3C

Effect of Depth and Quality of Ground Water on Soil Salinization: A Field Study with a Fluctuating Water Table,
W77-12000 1023 2G

Reclamation of a Saline-Sodic Soil by the High Saltwater-Dilution Method,
W77-12035 1023 3C

Preliminary Study on Some Saline Soils of Peru Using a Hydrophobic Emulsion,
W77-12044 1023 3C

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

Irrigation of a Saline-Sodic Site in the Sudan Gezira. I-Water Movement,
W77-12285 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

Soil Salinity Testing in the Field.
W77-12720 1024 7B

Calculation and Prediction of the Salt Regime of Lowland Soils Under Influence of Groundwater Salinization,
W77-12729 1024 2G

Models for Predicting the Impact of Irrigation on Soil Salinity,
W77-12731 1024 2G

Soil Salinity and Plant Nutritional Status,
W77-12736 1024 3C

Transplantation of Juncus SPP. On Saline Soils in Egypt,
W77-12739 1024 3C

Composition of Saline Drainage Water in Iraq and its Use,
W77-12740 1024 3C

Chemical Reclamation of Solonetz-Solochaks in the Ararat Plain and the Possibility of Utilizing Saline Waters for Leaching and Irrigation,
W77-12743 1024 3C

Irrigation with Saline Water in South Texas,
W77-12745 1024 3C

Water Quality for Agriculture,
W77-12753 1024 5G

Distribution and Seasonal Variability of Micronutrients in Certain Salt Affected Soils of Northern Greece,
W77-12756 1024 5B

Irrigation Management Where Salinity Sources and Sinks are Present,
W77-12760 1024 3C

Desalinization of a Highly Saline Soil, Prediction and Field Observation,
W77-12762 1024 3A

Evaluating Improved Irrigation Water Management Technologies for Reducing Salt Pickup from Grand Valley,
W77-12764 1024 5G

Map of Salty Soils of Africa,
W77-12765 1024 2G

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Influence of Seed Pretreatments on Salt Tolerance of Cotton During Germination,
W77-12831 1024 3C

SALINE WATER

Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Reclamation Apparatus for Carrying out said Method,
W77-01215 1003 3A

Salt Water Domestic Waste Treatment,
W77-02353 1005 5D

The Influence of the Raw Water Conditioning on the Working Data of a Reverse Osmosis Plant to Produce Ultra-Pure Water (Einfluss der Rohwasserkonditionierung auf Betriebsdaten einer Umkehrosmose-Anlage zu Reinstwassererzeugung),
W77-02355 1005 5D

Use of Caspian Sea Water for Irrigation,
W77-04263 1009 3C

Use of Saline Water in Agriculture. II. Crop Growth and Response to Fertilizer Application Under Saline Water Use in Cultivators' Fields,
W77-04311 1009 3C

Salt-Resistant Crops Coming,
W77-04312 1009 3C

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

Desalination of Soils of Menofeya Governorate Put Under Tile Drainage,
W77-04322 1009 2G

Effect of Water Quality and Irrigation Frequency on Farm Income in the Imperial Valley,
W77-04566 1009 3C

Gypsum Requirement of Sodic Soils and Waters,
W77-04784 1010 2G

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Salt Composition of Water from the Western (Kurtli) Reservoir, (In Russian),
W77-05101 1011 2H

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

Effect of the Quality of Irrigation Water on the Yield of Some Wheat (Triticum Aestivum) Varieties in a Sandy Soil of Rajasthan,
W77-06247 1013 3C

Quality of Underground Irrigation water in the Semi Arid Tract of Agra District,
W77-06249 1013 3C

The Colorado River Salinity Problem--Old Approaches to a New Issue,
W77-06540 1013 5G

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Content of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

Colorado River Water Quality Improvement Program (Final Environmental Statement).
W77-09527 1019 5G

Colorado River Basin Salinity Control Project--Title I,
W77-09931 1020 5D

Disposal of Salt Water During Well Construction, Problems and Solutions,
W77-10519 1021 5G

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

Restricted Drainage and Its Effect on Rising Ground Water Table and Soil Salinity,
W77-11627 1023 4B

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

Composition of Saline Drainage Water in Iraq and its Use,
W77-12740 1024 3C

System for Managing Saline and Run-off Water for Fruit and Crop Production in Arid Regions of Mexico,
W77-12741 1024 3C

Yields and Acreage as Variables in Planning the Use of Saline Irrigation Water: A Case Study from Iran,
W77-12742 1024 3C

Chemical Reclamation of Solonetz-Solochaks in the Ararat Plain and the Possibility of Utilizing Saline Waters for Leaching and Irrigation,
W77-12743 1024 3C

Potential for Saline Water Irrigation of Tropical Soils,
W77-12744 1024 3C

Irrigation with Saline Water in South Texas,
W77-12745 1024 3C

Irrigation with Saline Water in the Pecos Valley of West Texas,
W77-12746 1024 3C

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

Various Indices for Evaluating the Effective Salinity and Sodicity of Irrigation Waters,
W77-12752 1024 3C

Salinity Survey in Israel,
W77-12767 1024 2K

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

SALINE WATER BARRIERS

Ground Water Basin Protection Projects: Fremont Salinity Barrier.
W77-03555 1007 4B

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

SALINE WATER-FRESHWATER INTERFACES

Surface Nutrients, Chlorophyll-A and Phaeopigment in Some Scottish Sea Lochs,
W77-00182 1001 5C

Osmosis Process for Producing Energy,
W77-01751 1004 3A

Reactions of White Sea Organisms to a Decrease of Salinity in Connection with Freshwater Discharge into Bays, (In Russian),
W77-02233 1005 2L

Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

The Biological Importance of a Polluted Estuary,
W77-04860 1010 5C

A Single-Potential Solution for Regional Interface Problems in Coastal Aquifers,
W77-04881 1010 2F

Waste Injection into Stratified Ground Water Bodies,
W77-06855 1014 5B

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

A Reconnaissance of the Hydrology of the Intracoastal Waterway from Bucksport to Little River Inlet, South Carolina,
W77-09077 1018 2L

Miami Plans Injection Well for Wastewater Disposal.
W77-10619 1021 5E

Analytical Solution for Steady Interface Flow in a Coastal Aquifer Involving a Phreatic Surface with Precipitation,
W77-10762 1021 2F

SALINE WATER INTRUSION

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Evidence of Salt-Water Intrusion in Southeastern Long Island,
W77-01924 1004 5B

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

Meromictic Mechanisms in a Coastal Lake, (In Finnish),
W77-04071 1008 5C

A Single-Potential Solution for Regional Interface Problems in Coastal Aquifers,
W77-04881 1010 2F

Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

Selected Environmental Law Aspects of the Garrison Diversion Project,
W77-05054 1010 6E

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Saltwater-Freshwater Interfaces in the '2,000-' and '2,800-Foot' Sands in the Capital Area Ground Water Conservation District,
W77-07703 1016 4B

Determination of Salt-Water Interface by Electric Resistivity Depth Soundings,
W77-07783 1016 2F

The Influence of Brackish-Water Intrusion on Macroinvertebrate Associations of the Lower Tchefuncte River, Louisiana,
W77-08292 1017 5B

Report on Water Resources Problems of Western Collier County, Florida as Affected by the GAC Corporation's Canal System in Its Golden Gate Development Project,
W77-08380 1017 6E

A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

Miami Plans Injection Well for Wastewater Disposal.
W77-10619 1021 5E

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Mangroves as Monitors of Change in the Spanish River,
W77-11155 1022 6E

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

SALINE WATER SYSTEMS

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

Elucidating Salination Mechanisms by Stable Isotope Tracing of Water Sources,
W77-11056 1022 5B

SALINE WATERS

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

SALINITY

Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

Variability of Amino Acid Composition of Algae Inhabiting the Zone of Variable Salinity, (In Russian),
W77-00345 1001 5A

Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

A Comparative Study of the Limnology of Three Maar Lakes in Western Victoria (Australia), 1. Physiography and Physicochemical Featues,
W77-00447 1001 2H

Migration of Salt from Feedlot Waste as Affected by Moisture Regime and Aggregate Size,
W77-00558 1002 5B

Hydrogeophysical Equivalence of Water Salinity, Porosity and Matrix Conduction in Arenaceous Aquifers,
W77-00652 1002 2F

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

An Analysis of Instabilities Caused by Salinity Gradients in Groundwater,
W77-01931 1004 5B

A Mixed-Dimension Kinematic Estuarine Model,
W77-02131 1005 2L

Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Reactions of White Sea Organisms to a Decrease of Salinity in Connection with Freshwater Discharge into Bays, (In Russian),
W77-02233 1005 2L

Effect of Salinization on Hydromacrophytes of the Kuban Estuaries, (In Russian),
W77-02255 1005 2L

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

1976 Environmental Conditions Relative to Shrimp Production in Coastal Louisiana,
W77-02876 1006 5C

Barataria Basin: Salinity Changes and Oyster Distribution,
W77-02884 1006 5C

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Soil Water Extraction by Alfalfa,
W77-03064 1006 3C

The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

Ecology of Aquatic Saprophytic Phycomycetes. II, (In Russian),
W77-03201 1007 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Desertification and the Salinity Problem in Australia,
W77-03741 1008 4C

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

A Study on the Influence of Salinity Fluctuations upon the Bacterial Flora of the Lagoon Cienaga Grade de Sante Marta (Colombia) and the Adjacent Coastal Region, (In German),
W77-04076 1008 5B

Comparative Investigations on the Self-Purification in Polluted Waters of Different Salinities, (In German),
W77-04098 1008 5G

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

An Electrical Conductivity Probe for Determining Soil Salinity,
W77-04763 1010 2G

Salinization of Newly-Irrigated Desert Soils in the Khauzkhan Tract, (In Russian),
W77-04781 1010 3C

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Mississippi Sound Salinity Distribution and Indicated Flow Patterns,
W77-05135 1011 2L

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

Studies on Soil Salinization and Alkalization as Affected by Irrigation Waters, (In Romanian),
W77-05190 1011 3C

Characteristics of the Pelagic Environment of the Brackish-Water Lagoons of Bages-Sigean and Salses-Leucate During the Summer of 1974, (In French),
W77-05304 1011 5C

The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Effects of Various Environmental Factors on Egg Development of Several Species of Acartia in Southern California,
W77-05640 1012 5C

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

The Lok on Pai Desalting Plant - Hong Kong,
W77-05940 1012 3A

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

Fertility and Mixed Salinity on Growth and Ca, Mg, Na, P and CI Concentrations of Tomato, Corn, and Sudan Grass Grown in Sand Culture,
W77-06233 1013 3C

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

Effects of Salinity on Larval Growth in the California Killifish, Fundulus parvipinnis Girard,
W77-06464 1013 5C

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

The Colorado River Salinity Problem--Old Approaches to a New Issue,
W77-06540 1013 5G

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Salinity Effects on Rice After the Boot Stage,
W77-06871 1014 3C

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Blank and Salinity Corrections for Automated Nutrient Analysis of Estuarine and Sea Waters,
W77-06938 1014 5A

Alteration in the Toxicity of Tissue Lipids with the Adaptation of Fishes to Osmotic Pressure Changes in the Environment,
W77-07120 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

Interaction of Temperature and Salinity on Oxygen Consumption of the Estuarine Crab Panopeus Herbstii,
W77-07375 1015 5C

The Effect of Salinity and Cyclic Temperature on Larval Development of the Mud-Crab Rhithropanopeus Harrisii (Brachyura: Xanthidae) Reared in the Laboratory,
W77-07384 1015 5C

Comparative Ecophysiology of Gammarids (Crustacea: Amphipoda) From Marine, Brackish and Fresh-Water Habitats, Exposed to the Influence of Salinity-Temperature Combinations. I. Effect on Survival,
W77-07397 1015 5C

Hematology of Juvenile Striped Bass, Morone Saxatilis (Walbaum), Acclimated to Different Environmental Conditions,
W77-07400 1015 5C

Respiratory Responses of Gillichthys Mirabilis to changes in Temperature, Dissolved Oxygen and Salinity,
W77-07401 1015 5C

Effect of Silt and Salinity on the Mortality of Meretrix Lusoria (Roeding), (In Korean),
W77-07428 1015 5C

The Errors Involved in Inferring Salinity from Sound Velocity,
W77-07774 1016 2L

The Generation of Salinity Finestructure by Vertical Diffusion,
W77-07775 1016 2L

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Con-

tent of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

The Behaviour of Dissolved Iron, Manganese and Zinc in the Beaulieu Estuary, S. England,
W77-08701 1018 5B

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

Testing of a Technique for Remotely Measuring Water Salinity in an Estuarine Environment,
W77-08903 1018 2L

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Effect of Leaching Fraction on River Salinity,
W77-09697 1020 5G

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

Oligochaeta of the Deniester River Mouth Region, (In Russian),
W77-10065 1020 2L

Primary Production Studies in Porto Novo Waters, S. India,
W77-10140 1021 5C

The Influence of Salinity on the Growth of Some Plankton Diatoms from Brackish Water,
W77-10146 1021 5C

Large Scale Mortality of Fish at St Lucia,
W77-10197 1021 2H

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Agrotechnical Principles for Water and Salinity Control in the Root Zone,
W77-11064 1022 3C

Mangroves as Monitors of Change in the Spanish River,
W77-11155 1022 6E

The Water Quality Problem on the Colorado River,
W77-11168 1022 5G

Mexican-American International Water Quality Problems: Prospects and Perspectives,
W77-11169 1022 6E

United States Approaches to the Salinity Problem on the Colorado River,
W77-11170 1022 6E

Salinity in the Colorado: An Interpretation of the Mexican-American Treaty of 1944,
W77-11171 1022 6E

The Colorado River: International Aspects,
W77-11172 1022 6E

A History and Interpretation of the Water Treaty of 1944,
W77-11174 1022 6E

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Survival of Coregonus Peled Larvae in Different Salinities,
W77-11338 1022 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Surface Modifications for Water Management and Salinity Control in a Nonirrigated Area,
W77-11394 1022 3C

Sampling the Unsaturated Zone in Irrigated Field Plots,
W77-11400 1022 2G

Irrigation Control Using Tensiometers and Salinity Sensors,
W77-11404 1022 3F

Assessment of the Salinization of Irrigated Soils of Cotton Fields by Aerial Photos, (In Russian),
W77-11475 1022 3C

The Effect of Salinity of Qarun Lake on the Adjacent Soil,
W77-11625 1023 2H

Restricted Drainage and Its Effect on Rising Ground Water Table and Soil Salinity,
W77-11627 1023 4B

Salinity Effects on Nitrogen Use by Wheat Cultivar Sonora,
W77-11946 1023 3F

Effect on Irrigation Water Quality, Sulfuric Acid and Gypsum on Plant Growth and on Some Physical and Chemical Properties of Pima Soil,
W77-11998 1023 3C

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

Effect of Salinity and N-Fertilization on Growth and N Content of Corn,
W77-12284 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. I-Water Movement,
W77-12285 1024 3C

Effect of Irrigation Regime Under Saline Conditions on Growth and Yield of Cotton Plant in Calcareous Soil,
W77-12288 1024 3C

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

A Note on the Lateral Mixing of Water Masses,
W77-12303 1024 2L

Salinity Management with Drip Irrigation,
W77-12530 1024 3C

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

The Impact of Energy Development on Water Resources in the Upper Colorado River Basin,
W77-12630 1024 3E

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

Apparatus for Determining Salinity of Fluids,
W77-12687 1024 1A

Operation and Maintenance of Irrigation and Drainage Systems: Section IV.---Maintenance.
W77-12712 1024 3F

Significance of Water Quality to Water Resources,
W77-12714 1024 5G

The Relationship Between the Small Algal Flora of the Chain of Shallow Inlets to the South of Darss (South Baltic) and the Quality of These Waters, (In German),
W77-12717 1024 5C

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Foliar Contents of Sodium and Chloride on Citrus Rootstocks Irrigated with Saline Waters,
W77-12727 1024 3C

Calculation and Prediction of the Salt Regime of Lowland Soils Under Influence of Groundwater Salinization,
W77-12729 1024 2G

Resistance to Soda Salinization of Some Iraqi Soils,
W77-12730 1024 2G

Models for Predicting the Impact of Irrigation on Soil Salinity,
W77-12731 1024 2G

Convective Transport of Solutes in and Below the Root Zone,
W77-12732 1024 5B

Use of Highly-Saline Water in Citrus Irrigation,
W77-12733 1024 3C

Salt Tolerance of Beans Under a Sand Mulch Culture,
W77-12734 1024 3C

Soil Salinity and Plant Nutritional Status,
W77-12736 1024 3C

Predicted and Actual Yield Decline from Fifty Percent Increase in Salinity of the Colorado River,
W77-12738 1024 3C

Transplantation of Juncus SPP. On Saline Soils in Egypt,
W77-12739 1024 3C

Salinity Effects on Corn Yield, Evapotranspiration, Leaching Fraction, and Irrigation Efficiency,
W77-12747 1024 3C

Problems in Predicting and Measuring Solute Concentrations in Irrigated Fields,
W77-12749 1024 5A

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

Various Indices for Evaluating the Effective Salinity and Sodicity of Irrigation Waters,
W77-12752 1024 3C

Water Quality for Agriculture,
W77-12753 1024 5G

Defailed Return Flow Salinity and Nutrient Simulation Model,
W77-12757 1024 5G

A Conceptual Hydrosalinity Model for Predicting Salt Load in Irrigation Return Flows,
W77-12758 1024 5B

Irrigation Management Where Salinity Sources and Sinks are Present,
W77-12760 1024 3C

Integrating Desalination and Agricultural Salinity Control Technologies,
W77-12761 1024 3A

On-Farm Water Management Practices for Alleviating Waterlogging and Salinity Problems in Pakistan,
W77-12763 1024 5G

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Salinity Survey in Israel,
W77-12767 1024 2K

Saline Water Classification in Iran by Rational Methods,
W77-12768 1024 3C

Field Testing of a New System for Qualifying Irrigation Water,
W77-12769 1024 3C

Effects of Salinity, Temperature and Nitrogen Fertilization on Growth and Composition of Rhodes Grass (Chloris Gayana Kunth),
W77-12842 1024 3C

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

SALINITY CONTROL

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

SALINITY DISTRIBUTION

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

SALINITY FINESTRUCTURE

The Generation of Salinity Finestructure by Vertical Diffusion,
W77-07775 1016 2L

SALINITY GRADIENT

Oyster Setting and Early Spat Survival at Critical Salinity Levels on Natural Seed Oyster Beds of Delaware Bay,
W77-00676 1002 2L

SALINITY GRADIENTS

An Analysis of Instabilities Caused by Salinity Gradients in Groundwater,
W77-01931 1004 5B

Salinity Induced Horizontal Estuarine Circulation,
W77-03312 1007 2L

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

SALINITY SENSOR

An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

SALINITY TESTING DEVICES

Soil Salinity Testing in the Field.
W77-12720 1024 7B

SALINITY TOLERANCE

Sulfate Saline Water and Its Influence on Selected Aquatic Vertebrates,
W77-12259 1024 3C

SALINITY VARIATION

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

SALINITY VARIATIONS

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

SALIX-ALBA

Growth and Water Economy of the Tree Species Alnus and Salix, (In German),
W77-09233 1019 2I

SALMO APACHE

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

SALMON

Evolutionary Aspect of the Reproductive Evology of Salmon of the Genus Salmo in Some Water Bodies of Kamchatka, (In Russian),
W77-00519 1001 2I

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Acute Toxicity of Residual Chlorine in Wastewater to Coho Salmon (Oncorhynchus Kisutch) and Some Resultant Hematologic Changes,
W77-04027 1008 5C

Ontogenetic Variation in the Multiple Hemoglobins of Coho Salmon (Oncorhynchus Kisutch) and Effect of Environmental Factors on their Expression,
W77-04054 1008 5C

Fecundity of Coho Salmon (Oncorhynchus Kisutch) from the Great Lakes and a Comparison with Ocean Salmon,
W77-04344 1009 2H

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1975,
W77-04404 1009 5C

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Water Quality Standards,
W77-04436 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease,
W77-04438 1009 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Tolerance of Salmonid Eggs, Juveniles and Squawfish to Supersaturated Nitrogen,
W77-04443 1009 5C

Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Influence of Dissolved Atmospheric Gas on Swimming Performance of Juvenile Chinook Salmon,
W77-05084 1010 5C

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

Proposed Research and Development Program in Fiscal Years 1973 and 1974 at Columbia and Snake River Projects for Nitrogen Control,
W77-05089 1010 8A

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

Interim Report on Survival of Coho Salmon Fingerlings Passing Through Operating Turbines With and Without Perforated Bulkheads and of Steelhead Passing Through Spillways With and Without a Flow Detector,
W77-05094 1010 5C

Salmon Prespawning Mortality Studies at Rocky Reach Dam and Priest Rapids Dam, Washington from September to November, 1965,
W77-05457 1011 5C

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Final Report - Part I, Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Salmonids, April-June, 1972,
W77-05771 1012 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Report to Corps of Engineers Gas Supersaturation Research, Prescott Facility, 1974,
W77-05785 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Gas Bubble Disease in Adult Chinook Salmon,
W77-06020 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Changes in the Blood Chemistry of Coho Salmon Exposed to Malachite Green,
W77-06746 1014 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

Waste Heat Employment for Accelerated Rearing of Coho Salmon,
W77-11664 1023 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

SALMON CREEK (AK)

Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

SALMON RIVER

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

SALMON RIVER (IDAHO)

The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

SALMONELLA

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

The Effect of Surface-Active Substances on Pathogenic Enterobacteria in Water, (In Russian),
W77-00346 1001 5C

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

Selection of Strains in Investigations for Hygienic Standardization of the Bacterial Composition of Drinking Water, (In Russian),
W77-02900 1006 5C

Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

A Scientific Basis for Determining Recreational Water Quality Criteria,
W77-04011 1008 5G

Use of New Type of Membrane Filters in Isolating Salmonella from Water of Surface Reservoirs, (In Russian),
W77-04082 1008 5A

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

Bacteriological Studies in the Cienaga Grande (Great Marsh) of Santa Maria, Columbia, (In Spanish),
W77-07512 1015 5C

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Salmonella in Poultry Packing Plant Effluents,
W77-07561 1015 5D

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Survival of Bacteria in Turbid and Polluted Waters,
W77-08606 1018 5C

Inactivation by Ionizing Radiation of Salmonella Enteritidis Serotype Montevideo Grown in Composted Sewage Sludge,
W77-09880 1020 5D

The Role of Effluents in the Spread of Salmonellae, (In Dutch),
W77-10231 1021 5C

Experience with the Bacteriological Control of Waste Water Purification (A szennyviztisztas bakteriologiai ellenorzesenek tapasztalatai),
W77-11725 1023 5D

Bacteriological Analyses Over the Rajka-Budapest Danube Section (Bakteriologiai vizsgalatok a Duna Rajka-Budapest kozotti szakaszan),
W77-11732 1023 5A

SALMONELLA-ANATUM

Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

SALMONELLA-TYPHIMURIUM

The Effect of Surface-Active Substances on Pathogenic Enterobacteria in Water, (In Russian),
W77-00346 1001 5C

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

SALMONIDS

A Rapid Method for Measuring the Acute Toxicity of Pulp Mill Effluents and Other Toxicants to Salmonid Fish at Ambient Room Temperature,
W77-00336 1001 5C

Progress in Sublethal Effect Studies with Kraft Pulp Mill Effluent and Salmonids,
W77-02573 1005 5C

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

Effect of Diets Containing Dogfish (Squalus Acanthias) Meal on the Mercury Content and Growth of Pen-Reared Coho Salmon (Oncorhynchus Kisutch),
W77-06259 1013 5C

The Erythrocyte Transport and Transfer of Methylmercury to the Tissues of the Rainbow Trout (Salmo Gairdneri),
W77-06273 1013 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

The Use of Warmed Water to Accelerate the Production of Coho Salmon,
W77-06429 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Ammonia Concentration in Relation to Ammonia Toxicity During a Rainbow Trout Rearing Experiment in a Closed Freshwater-Seawater System,
W77-06743 1014 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

The Accumulation of Polybominated Biphenyls by Fish,
W77-08777 1018 5C

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

Reactions of Young Salmonids to Certain Natural Chemical Stimuli,
W77-10236 1021 5C

Thermal Discharge Residence by Lake Michigan Salmonids,
W77-11145 1022 5C

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Does Low Environmental pH Influence Hepatic Growth in Fish,
W77-12203 1023 5C

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

Uptake of Chloro- and Bromobiphenyls, Hexachloro- and Hexabromobenzene by Fish,
W77-12636 1024 5C

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

SALT BALANCE
Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Effect of Irrigation on Some Properties of Southern Chernozems, (In Russian),
W77-02889 1006 2G

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Fertility and Mixed Salinity on Growth and Ca, Mg, Na, P and CI Concentrations of Tomato, Corn, and Sudan Grass Grown in Sand Culture,
W77-06233 1013 3C

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Model for Evaluating the Effects of Dikes on the Water and Salt Balance of Great Salt Lake, Utah,
W77-10563 1021 2H

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Calculation and Prediction of the Salt Regime of Lowland Soils Under Influence of Groundwater Salinization,
W77-12729 1024 2G

SALT BALANCES
The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

SALT BUDGET
Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

SALT CONCENTRATION PROFILES
An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

SALT CREEK (NB)
Flood Plain Information: Metropolitan Region, Lincoln, Nebraska: Volume I, Summary Report; Salt Creek, Haines Branch and Beal Slough, Salt Creek Basin.
W77-03179 1007 4A

Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

SALT DILUTION GAUGING
On the Precision of Salt Dilution Gauging,
W77-04875 1010 2E

SALT FINGER CONVECTION
Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

SALT FINGERS
Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

SALT LAKE COUNTY (UTAH)
An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

SALT MANAGEMENT (WESTERN U.S.)
Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

SALT MARSH ENERGETICS
The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

SALT MARSHES
Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Coastal Zone Boundaries.
W77-02685 1006 2L

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Salt Marshes,
W77-05409 1011 2L

Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Nutrient Transformations in Louisiana Salt Marsh Soils,
W77-07319 1015 5C

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

Bacteriological Studies in the Cienaga Grande (Great Marsh) of Santa Maria, Columbia, (In Spanish),
W77-07512 1015 5C

The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-08697 1018 5C

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Geochemical Interactions of Heavy Metals in Southeastern Salt Marsh Environments,
W77-09767 1020 5B

Animal Colonization of Man-Initiated Salt Marshes on Dredge Spoil,
W77-10035 1020 2L

Nitrogen Fixation (Acetylene Reduction) In a Salt Marsh Amended with Sewage Sludge and Organic Carbon and Nitrogen Compounds,
W77-11481 1022 5C

Photosynthate Distribution in Natural Stands of Salt Water Cordgrass,
W77-12173 1023 2I

SALT PONDS

Guidebook to Geologic and Beach Features of the Rachel Carson Salt Pond Area, New Harbor, Maine,
W77-11656 1023 2L

SALT REJECTION

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

SALT RIVER PROJECT

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

SALT RIVER VALLEY (ARIZONA)

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

SALT SALINITY

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

SALT STRESS

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

SALT TOLERANCE

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

Activity of Nitrate Reductase in the Aboveground Part of Corn Under Conditions of Salinization of the Medium, (In Russian),
W77-01599 1004 3C

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Effect of Calcium from the Water Environment on Tissue Metabolism of Phosphates in Anodonta Cygneal, (In Russian),
W77-03366 1007 5C

Acclimation and Tolerance of Artemia Salina to Copper Salts,
W77-04044 1008 5C

Salt-Resistant Crops Coming,
W77-04312 1009 3C

Rearing Experiment of Common Carp in Brackish Water, (In Korean),
W77-04661 1010 2L

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

Effect of the Quality of Irrigation Water on the Yield of Some Wheat (Triticum Aestivum) Varieties in a Sandy Soil of Rajasthan,
W77-06247 1013 3C

The Development of the Larva of Chlamys islandica in the Plankton and Its Salinity Tolerance in the Laboratory (Lamellibranchia, Pectinidae),
W77-06475 1013 5C

Salinity Effects on Rice After the Boot Stage,
W77-06871 1014 3C

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Large Scale Mortality of Fish at St Lucia,
W77-10197 1021 2H

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Physiological Basis for the Reduction of Plant Growth Under Conditions of Irrigation with Brackish Water and Possible Methods of Amelioration,
W77-11063 1022 3C

Selection of Mango Rootstocks for Irrigation with Saline Water,
W77-11069 1022 3C

Mangroves as Monitors of Change in the Spanish River,
W77-11155 1022 6E

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

Salt Tolerance of Prostrate Summer Cypress (Kochia Prostrata),
W77-12133 1023 3C

Salt Tolerance of Beans Under a Sand Mulch Culture,
W77-12734 1024 3C

Crop Salt Tolerance: Evaluation of Existing Data,
W77-12737 1024 3C

Influence of Seed Pretreatments on Salt Tolerance of Cotton During Germination,
W77-12831 1024 3C

SALT TRANSPORT (SOILS)

Convective Transport of Solutes in and Below the Root Zone,
W77-12732 1024 5B

Problems in Predicting and Measuring Solute Concentrations in Irrigated Fields,
W77-12749 1024 5A

SALT-VERDE WATERSHED (ARIZ)

Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

SALT-WATER CONTAMINATION

Salt Water Pumping Controls Sea Water Intrusion,
W77-05972 1012 2L

SALT WATER CORDGRASS

The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters,
W77-02830 1006 2L

SALT WATER RETARDATION

Control of Salt-Water Intrusion by Recharge Wells,
W77-05207 1011 2L

SALTON SEA

Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

SALTON SEA (CALIF)

Evaporation and Radiation Measurements at Salton Sea, California,
W77-11365 1022 2D

SALTON TROUGH (CALIF)

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

SALTS

An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

Dairy Manure Utilization and Field Application Rates,
W77-01532 1003 5B

The Effect of Water with Different Mineralization Levels on the Animal Body, (In Russian),
W77-02270 1005 5C

Annual Dynamics of Soluble Salts in the Soils of an Irrigated Field with Both Deep Closed and Open Drainage at the Bagaevsko-Sadkovskaya Irrigation System, (In Russian),
W77-02930 1006 3F

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Acclimation and Tolerance of Artemia Salina to Copper Salts,
W77-04044 1008 5C

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

Predicting Specific Conductance and Salt Concentration in Dilute Aqueous Solutions,
W77-04765 1010 2G

Salinization of Newly-Irrigated Desert Soils in the Khauzkhan Tract, (In Russian),
W77-04781 1010 3C

On the Precision of Salt Dilution Gauging,
W77-04875 1010 2E

The Effect of Salt on Small, Artificial Lakes,
W77-04896 1010 5A

Salt Composition of Water from the Western (Kurtli) Reservoir, (In Russian),
W77-05101 1011 2H

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Model of Salt Flow in Soil with a Source-Sink Term,
W77-07761 1016 2G

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

The Use and Misuse of Pure Water PVT Properties for Lake Waters,
W77-08840 1018 2H

Effect of pH and Complex Formation on Mercury (II) Adsorption by Bentonite,
W77-09281 1019 2G

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Estimating the Water and Salt Budgets of a Stratified Estuary,
W77-09709 1020 2L

Influence of Salt and Alkali on Ionic Equilibria in Submerged Soils,
W77-10282 1021 2G

Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

Water and Salt Flow Through Compacted Clays: I. Permeability of Compacted Illite and Montmorillonite,
W77-11234 1022 2G

Salt and Sodium Affected Soils in Relation to Nitrogen Utilization by Wheat,
W77-11623 1023 3C

The Effect of Salinity of Qarun Lake on the Adjacent Soil,
W77-11625 1023 2H

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: II. Supply of Iron,
W77-11955 1023 3C

Advantages of Using High Salt-Sodium Waters in the Reclamation of Gypsified Heavy-Textured Soil,
W77-11994 1023 2G

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

Salt Sieving Within Clay Soil Aggregates,
W77-12278 1024 2G

An Automatic System for Measuring Salt Concentration Profiles in Porous Media,
W77-12619 1024 2G

Composition of Saline Drainage Water in Iraq and its Use,
W77-12740 1024 3C

Fate of Salts from Water and Manure in a 4-Year Field Experiment,
W77-12755 1024 5G

Evaluating Improved Irrigation Water Management Technologies for Reducing Salt Pickup from Grand Valley,
W77-12764 1024 5G

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Waste Water Treatment Method,
W77-12948 1024 5D

SALVADOR (BRAZIL)
Bacteriological and Colimetric Examination of the Water Supplied to the Slaughterhouses Situated Near Salvador, Bahia, Brazil, (In Portugese),
W77-07587 1015 5A

SALVAGE VALUE
Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

SALVELINUS FONTINALIS
Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

SAMPLE PREPARATION
Optimization of a Simple Spotting Procedure for X-ray Fluorescence Analysis of Waters,
W77-04798 1010 5A

SAMPLER
New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

SAMPLERS
A Note on an in Situ Groundwater Sampling Procedure,
W77-04127 1009 5A

SAMPLES
Procedure for Hygienic Studies in Determining Local Methods for Protecting Water Resources of Marine Bodies of Water, (In Russian),
W77-05878 1012 5B

SAMPLING
Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

A Procedure for the Sampling and Testing of Large Soil Cores,
W77-00286 1001 2G

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

Hydrogeochemical Investigation of the Danube Water in Austria During the Years 1971 and 1972, (In German),
W77-00406 1001 5A

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

Zooplankton of the Akstafa Reservoir, (In Russian),
W77-00416 1001 2H

Suitability of Containers for Storage of Water Samples,
W77-00436 1001 5A

Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

Simple Method Measures Suspended Solids,
W77-00596 1002 5A

A Simple Tube-Type Water Profile Sampler,
W77-00641 1002 5A

Manganese in Narragansett Bay,
W77-00642 1002 5A

Hydrochemistry of the Parana River,
W77-00644 1002 2K

Water and Sediment Routing from Small Watersheds,
W77-00790 1002 4D

A Time Related Automatic Total-Load Sediment Sampler,
W77-00843 1002 2J

Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

National Eutrophication Survey: Data Acquisition and Laboratory Analysis System for Lake Samples,
W77-01788 1004 5A

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

Revised Department of the Army Pesticide Monitoring Program, I April, 1975,
W77-02203 1005 5A

State Consideration of the Rivers Zeta and Moraca Based on the Chemical Control, (In Serbo-Croatiau),
W77-02266 1005 5G

Analytical Methodologies for Leachate and Gas Analysis,
W77-02402 1005 5A

Monitoring Toxic Chemicals in Land Disposal Sites,
W77-02409 1005 5A

Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques.
W77-02444 1005 5B

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

The Muddy Run Pumped Storage Project: A Case History,
W77-02709 1006 5C

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Problems in the Monitoring of Biomass,
W77-02818 1006 5A

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Study of a Relationship Between Chemical and Bacteriological Pollution in the Coastal Zones, (In French),
W77-02903 1006 5A

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Nature Preservation Activity RR Investigation: Part 6. A Modified Method of Measuring the Chemical Oxygen Demand Gives a High Analytical Capacity, (In Swedish),
W77-03589 1007 5A

An Automatic, Continuous, Modular Wastewater Monitoring System,
W77-03801 1008 5A

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

An Oil Slick Sampling System,
W77-03909 1008 5A

Measurement of Volatile and Nonvolatile Hydrocarbons in Selected Areas of the Atlantic Ocean,
W77-03911 1008 5A

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

A Note on an in Situ Groundwater Sampling Procedure,
W77-04127 1009 5A

Enterobacteriaceae Found in River Water, (In Spanish),
W77-04138 1009 5A

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Sampling: One Key to Drilling Success,
W77-04279 1009 8G

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

Examination of the Fluoride Concentration in Drinking Water of the Town of Titograd, (In Serbo-Croatian),
W77-04334 1009 5A

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Progress Report on Corps of Engineers Activities Related to Supersaturated Gases,
W77-05086 1010 5A

Soil Sampling from Experimental Fields, (In Romanian),
W77-05189 1011 2G

Sampling Variation in Sandy Beach Littoral and Nearshore Meiofauna and Macrofauna,
W77-05388 1011 2L

Instruments for Studying Ocean Pollution,
W77-05448 1011 5A

Sample Collecting Apparatus,
W77-05652 1012 5A

Liquid Sampling,
W77-05658 1012 5A

Efficiency Test on Four High-Speed Plankton Samplers,
W77-05836 1012 7B

On the Reliability of Methods for Quantitative Surveys of Fish Larvae,
W77-05837 1012 7B

Investigations on the Distribution of Fish Larvae and Plankton Near and Above the Great Meteor Seamount,
W77-05838 1012 2L

An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

Standard Procedures for Biological Evaluation.
W77-06374 1013 5A

Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

Electrically Powered Sampler for Benthic Macroinvertebrates,
W77-06757 1014 7B

High Seas Oil Pollution: Particulate Petroleum Residues in the North Atlantic,
W77-06911 1014 5B

A Light-Weight and Cheap Depth Sampler,
W77-07155 1015 5A

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Surber Sampling in Deep Water for Bottom Organisms,
W77-07199 1015 7B

Post-Glacial History of Mirror Lake and Its Watershed In New Hampshire, U.S.A.: An Initial Report,
W77-07472 1015 5C

Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

Improved Method for the Determination of ATP in Lakewater, (In German),
W77-07578 1015 5A

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

Water Sampling from Unpumped Wells with Static Water Levels Deeper than 10 Metres,
W77-07787 1016 5A

Liquid Sampler,
W77-08024 1016 7B

New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

Extraction of Trace Componets From Large Quantities of Ice in Bore Holes,
W77-09121 1019 2C

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

Investigation of Radioactive Waste Disposal at Deepwater Dumpsite 106--Sampling Program May 1974,
W77-09246 1019 5B

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

A Simple Continuous Ice Crystal Replicator for Use in Laboratory Cloud Chambers,
W77-09360 1019 2B

A Method for Sectioning Saturated Soil Cores,
W77-09436 1019 2G

A Simple Hand Corer for Shallow Water Sampling,
W77-09715 1020 7B

Oceanographic Water Sampler,
W77-09799 1020 7B

Sampling the Unsaturated Zone of Irrigated Lands for Reliable Estimates of Nitrate Concentrations,
W77-09974 1020 2G

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Data Collection, Analysis and Instrumentation,
W77-10442 1021 2A

Handbook for Sampling and Sample Preservation of Water and Wastewater,
W77-10539 1021 5A

Bed Load Sampler for Streams with Sandy Bed,
W77-11208 1022 2J

A Comparison of In Situ Extractors for Sampling Soil Water,
W77-11235 1022 2G

Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Sampling the Unsaturated Zone in Irrigated Field Plots,
W77-11400 1022 2G

Surveillance in Water Quality Management,
W77-11478 1022 5G

Transverse-Grid Water Quality Analyses Over the Szob-Budapest Danube Section (Keresztmetszethalos vizminoseg vizsgalatok a Duna Szob-Budapest kozotti szakaszan),
W77-11731 1023 5A

Bacteriological Analyses Over the Rajka-Budapest Danube Section (Bakteriologiai vizsgalatok a Duna Rajka-Budapest kozotti szakaszan),
W77-11732 1023 5A

Incomplete Extraction of Rapidly Settling Particles from Water Samplers,
W77-11801 1023 2L

A Closing, Replicate-Sample, Sediment Trap,
W77-11802 1023 2J

An Electron Microscopy Study of Particulates Present in Individual Raindrops,
W77-11821 1023 2B

Composite Sampling Method and System,
W77-11920 1023 5A

Evaluation of Porcelain Cup Soil Water Samplers for Bacteriological Sampling,
W77-11968 1023 5A

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Distribution of Some Organic Compounds in the Receiving Waters of a Kraft Pulp and Paper Mill,
W77-12068 1023 5B

New Technique for Measuring the Water Potential of Detached Leaf Samples,
W77-12117 1023 7B

Mercury Levels in Freshwater Fish of the State of South Carolina,
W77-12223 1023 5A

A New Model of Thicket Dredge, (In Russian),
W77-12347 1024 7B

Water Quality Management--The Management Information Requirement,
W77-12394 1024 5G

Descriptive Water Quality (Dispersion) Model for the Danube Section Between Szob and Budapest (A Duna, Szob es Budapest kozotti vonatkozo, leiro jellegu visminosegi (diszperzios) modell),
W77-12412 1024 5B

A Survey of Commercially Available Automatic Wastewater Samplers,
W77-12481 1024 5A

Method and Apparatus for Collecting Fluid Contaminants,
W77-12686 1024 5A

Apparatus for Determining Salinity of Fluids,
W77-12687 1024 1A

Upper Bay Survey, Vol. III. Automated Data Processing and Supplementary Data,
W77-12881 1024 5A

SAMPLING METHODOLOGIES

Sampling and Analysis of Stormwater Runoff from Urban and Semi-Urban/Rural Watersheds - Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities,
W77-02995 1006 5B

SAMPLING PUMPS

Water Sampling from Unpumped Wells with Static Water Levels Deeper than 10 Metres,
W77-07787 1016 5A

SAN ANTONIO AREA (TEX)

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

SAN ANTONIO BAY (TEX)

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

SAN ANTONIO BAY (TEXAS)

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

SAN ANTONIO RIVER BASIN (TEX)
A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

SAN ANTONIO RIVER (TX)
Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

SAN ANTONIO (TEX)
Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

SAN BERNADINO (CALIF)
USGS Scientists Bring California Water Supply into Compliance with Federal Regulations,
W77-06853 1014 5G

SAN BERNARDINO VALLEY AREA (ARIZ)
Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

SAN CARLOS RESERVOIR (ARIZ)
The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

SAN CLEMENTE (CALIF)
Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

SAN DIEGO AQUEDUCT (CALIF)
Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Comprehensive Monitoring of Meteorology, Hydraulics, and Thermal Regime of the San Diego Aqueduct, California,
W77-06973 1014 2D

SAN DIEGO BAY (CALIF)
Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Feasibility of Transplantation, Revegetation, and Restoration of Eelgrass in San Diego Bay, California,
W77-03546 1007 5G

Relative Significance of Contemporary Dredging Impacts in San Diego Bay, an Historically Stressed Environment,
W77-11023 1022 5G

SAN DIEGO (CALIF)
San Diego: Civil Engineering Innovations Abound.
W77-00063 1001 5D

SAN FRANCISCO BAY
Comparison of Aerobic and Anaerobic Methylation of Mercuric Chloride By San Francisco Bay Sediments,
W77-04867 1010 5C

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

Social Cost of Oil Pollution,
W77-11892 1023 5G

Mercury in the Seston of the San Francisco Bay Estuary,
W77-12238 1023 5C

SAN FRANCISCO BAY AREA (CALIF)
Flood-Prone Areas and Land-Use Planning--Selected Examples from the San Francisco Bay Region, California,
W77-11871 1023 4A

SAN FRANCISCO BAY (CALIF)
Injection/Extraction Well System--A Unique Seawater Barrier,
W77-04888 1010 4B

Relative Reflectance and Complex Refractive Index in the Infrared for Saline Environmental Waters,
W77-08215 1017 2L

SAN FRANCISCO BAY-DELTA AREA (CALIF)
Mathematical Modeling of Estuarial Ecosystems,
W77-03682 1008 5B

SAN FRANCISCO BAY-DELTA ESTUARY
Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

SAN FRANCISCO BAY ESTUARY
Longitudinal Distribution of Selected Micronutrients in Northern San Francisco Bay During 1973,
W77-08487 1017 5C

Phytoplankton Production and Enumeration in Northern San Francisco Bay During 1972,
W77-08488 1017 5C

Implications of Seasonal Chemical and Physical Factors on the Production of Phytoplankton in Northern San Francisco Bay,
W77-08489 1017 5C

SAN FRANCISCO BAY REGION (CALIF)
Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

SAN FRANCISCO RIVER (NM)
Time and Frequency-Domain Identification of a Casual Bivariate Stochastic Process,
W77-07680 1016 2E

SAN GABRIEL RIVER (TEX)
North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

SAN JOAQUIN RIVER
Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

SAN JOAQUIN RIVER (CA)
Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

Flood Plain Information: Southwest Stream Group, Stockton, California.
W77-12600 1024 4A

SAN JOAQUIN VALLEY (CALIF)
Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

Agricultural Applications of Remote Sensing--A True Life Adventure,
W77-08424 1017 3F

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Nitrogen Balance in the Southern San Joaquin Valley,
W77-09284 1019 5B

Viscoelastic Aquifer Model Applied to Subsidence Due to Pumping,
W77-11217 1022 2F

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

SAN JUAN AREA (PR)
Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

SAN JUAN MOUNTAINS (COLO)
Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Statistical Forecasting of Snow Avalanches, San Juan Mountains, Southern Colorado, U.S.A.,
W77-08055 1016 2C

SAN JUAN RIVER (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

SAN LEANDRO CREEK (CALIF)
Invertebrate Colonization of Artificial Substrates in San Leandro Creek,
W77-08443 1017 5A

SAN LUIS PUMP-STORAGE PLANT (CALIF)
An Investigation of Techniques to Expedite Synchronizing for Pump-Storage Units and Standby Generating Units,
W77-01686 1004 8C

SAN LUIS VALLEY (COLO)
Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

SAN PEDRO RIVER BASIN (ARIZ)
Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

SAN RAFAEL RIVER (UTAH)
Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

SAN SIMON AREA (ARIZ)
Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

SAN VICENTE RESERVOIR (CALIF)
Comparative Study with Costs of Hypolimnetic Aeration,
W77-04900 1010 5G

SANCTUARIES
Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

SAND
Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

SAND AQUIFERS
Hydrogeophysical Equivalence of Water Salinity, Porosity and Matrix Conduction in Arenaceous Aquifers,
W77-00652 1002 2F

Sand 'Sponge' Will Store Reclaimed Water.
W77-01451 1003 4B

Water Under the Sand,
W77-02852 1006 4B

Influence of Matrix Conduction Upon Hydrogeophysical Relationships in Arenaceous Aquifers,
W77-05954 1012 2F

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

SAND BARS
On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

Coastal Sand Dunes,
W77-05405 1011 2L

Shallow Marine Sand Bar Sequences: An Example from the Late Precambrian of North Norway,
W77-09699 1020 2J

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

SAND-BED CHANNELS
Mathematical Modeling of Sedimentation Transients in Sand-Bed Channels,
W77-07354 1015 2J

SAND COLUMNS
Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

SAND CONTROL
Low-Cost Chemical Cuts Sand Problems in Heavy Oil Field,
W77-04124 1009 8G

SAND CREEK (CA)
Flood Plain Information: Sand and Cottonwood Creeks and the Lower Kaweah River, Visalia, California.
W77-04216 1009 4A

SAND CREEK (KS)
Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

SAND DOLLARS
Chemical Composition and Effects of Water Extracts of Petroleum on Eggs of the Sand Dollar Melitta Quinquiesperforata,
W77-11345 1022 5C

SAND DUNES
Coastal Sand Dunes,
W77-05405 1011 2L

A Study on the Moisture Availability and Other Conditions of Unstabilised Dunes in the Context of Present Land Use and the Future Prospects for Diversification,
W77-11628 1023 4D

SAND-EEL
The Feeding of Plaice and Sand-Eel Larvae in the Southern Bight in Relation to the Distribution of Their Food Organisms,
W77-05841 1012 2L

SAND FILTERS
Investigation of Combined Washing of the Sand Filter in the Purification of Kraft Mill Effluents (Issledovanie kombinirovannoi promyvki peschanogo fil'tra pri ochistke stokov sul'fat-tsellyuloznogo proizvodstva),
W77-12340 1024 5D

SAND FILTRATION
Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

SAND LAKE (ALASKA)
Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

SAND PILES
The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

SAND PLAINS
Nitrate and Chloride in Ground Water Under Irrigated Agriculture in Central Wisconsin,
W77-06313 1013 5B

SAND PROFILE
Gravity Drainage of a Sand Profile Under a Time-Dependent Surface Flux,
W77-05532 1011 2F

SAND SEDIMENTATION
Effects of Sand Sedimentation on Colonization of Stream Insects,
W77-06407 1013 5C

SAND SEPARATORS
Low-Cost Sand and Gravel Separator,
W77-12522 1024 3F

SAND SPLASH
Effect of Pore Water Pressure on Sand Splash,
W77-05354 1011 2J

SAND TRACING
Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

SAND TRANSPORT
An Effect of Permeability on Sand Transport by Waves,
W77-02508 1005 2L

SAND WALLS
The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

SAND WAVES
Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

Rollers and Ripples in Sand, Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders,
W77-03998 1008 2J

Effect of Slope on the Threshold of Motion and Its Application to Orientation of Wind Ripples,
W77-09955 1020 2J

Spatially Averaged Flow Over a Wavy Surface,
W77-10103 1021 2E

SANDEFJORD (NORWAY)
Surface Water Pollution-the Catchment Area at Sandefjord, (In Norwegian),
W77-01587 1004 5B

SANDS
Marine Sand and Gravel Mining,
W77-00195 1001 3E

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

Wind Erosion of Sand and Measures for Reclamation in the Zone of the Kara Kum Canal, (In Russian),
W77-00970 1002 4D

Are Hovercraft a Major Cause of Disturbances to Inertidal Invertebrates,
W77-01263 1003 6G

Comparative Efficiency of Geophysical Prospecting Techniques in Water-Saturated Sands,
W77-01361 1003 2F

Movement of Fertilizer and Herbicide Through Irrigated Sands,
W77-02219 1005 5B

An Effect of Permeability on Sand Transport by Waves,
W77-02508 1005 2L

Drainage of Vertical Columns of Lakeland Sand,
W77-02510 1005 2G

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Effect of Groundwater Moisture on the Formation of the Sandy Soils of the Ket-Tym Region of the Ob River, (In Russian),
W77-02885 1006 2G

Study and Evaluation of Remedial Sand Bypassing Procedures,
W77-02933 1006 2L

Model Materials Evaluation Sand Tests; Hydraulic Laboratory Investigation,
W77-02938 1006 8G

Flume Studies with Fine and Coarse Sands,
W77-02976 1006 2J

Relationships Between Sand Input from Rivers and the Composition of Sands from the Beaches of Southern California,
W77-03324 1007 2L

Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

Moisture Regime of Sandy Desert Soils, (In Russian),
W77-04795 1010 2G

Water Regime of Central Kara Kum Soils in Connection with Rangeland Afforestation, (In Russian),
W77-04855 1010 2G

The Effect of Vertical Sand Drains on the Hydraulic Resistance of a Semi-Pervious Layer,
W77-04877 1010 8D

Experimental and Simulated Transport of Phosphorus Through Sandy Soils,
W77-06015 1012 5B

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

Methane-Derived Carbonate Cements in Barrier and Beach Sands of a Subtropical Delta Complex,
W77-06677 1014 2L

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

Water Resources Commission V. Connecticut Sand and Stone Corporation (Judicial Review of Administrative Factual Determination).
W77-08404 1017 6E

Beach Sand Transport: Distribution and Total Drift,
W77-09019 1018 2L

Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

Influence of Cation Content on the Biological Activity of Fensulfothion in Plainfield Sand,
W77-09639 1020 2G

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

Potassium Sources and Availability on a Deep, Sandy Soil of East Texas,
W77-09972 1020 2G

Deep Percolation in a Furrow-Irrigated Sandy Soil,
W77-10169 1021 3F

Stabilization of Potentially Liquefiable Sand Deposits Using Gravel Drains,
W77-10777 1021 8D

Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

Leaching of Phosphate and Selected Cations from Sandy Soils as Affected by Lime,
W77-12172 1023 5B

Nutrient Transport in Runoff from Sandy Soils,
W77-12184 1023 5B

Soil Water Movement During the First Stage of Drying of a Moist, Sandy Soil Under a Very Low Drying Rate,
W77-12314 1024 2G

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

Salt Tolerance of Beans Under a Sand Mulch Culture,
W77-12734 1024 3C

Effects of the Coarse Constituents on Water Flow in a Sandy Soil, (In French),
W77-12896 1024 2G

SANDSTONES

Reduction of Porosity by Pressure Solution: Experimental Verification,
W77-01332 1003 2F

Water Under the Sand,
W77-02852 1006 4B

Permeation Properties of the Bunter Sandstone of Northwest Lancashire, England,
W77-05793 1012 2F

Specific Yield Determinations from a Consolidated Sandstone Aquifer,
W77-07153 1015 2F

Recharge to Bunter Sandstone Determined From Lysimeters,
W77-09108 1019 2F

Shallow Marine Sand Bar Sequences: An Example from the Late Precambrian of North Norway,
W77-09699 1020 2J

SANDVIS BAY

A Check List and Notes on the Birds of Sandvis, South West Africa,
W77-10089 1020 2L

SANDY CREEK (WV)

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

SANDY LOAM

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

SANDY SOILS

Effect of Method of Nitrogen Application on Corn (Zea Mays L.) Grown on Irrigated Sandy Soil,
W77-03071 1006 3F

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

SANITARY ENGINEERING

Boyer V Dept of Health (Location of Leach Field Relative to Water Supply).
W77-03713 1008 6E

Design Sewers to be Self-Cleaning,
W77-06103 1013 8G

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

Oil-Flushed Toilets Gain,
W77-08583 1017 3D

PLANASA--A National Plan for Water Supply and Sewerage in Brazil,
W77-08646 1018 6E

Some Effects of Lime Addition on High Solids, Completely Mixed, Activated Sludge Waste Water Treatment,
W77-09601 1020 5D

City of Minnetonka Wing Lake Trunk Sewer: City of Minnetonka, Minnesota.
W77-09842 1020 5D

A Sanitary Engineer's Viewpoint on Tall Buildings,
W77-10213 1021 8A

SANITARY LANDFILL MONITORING

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

SANITARY LANDFILLS

Generation of Leachate from Landfills and Its Subsurface Movement,
W77-04134 1009 5B

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

SANITARY PROTECTION

Evaluating Well Construction,
W77-04131 1009 8B

SANITATION DEVICES

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

SANTA ANA RIVER BASIN (CALIF)

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

SANTA BARBARA

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

SANTA BARBARA BASIN (CALIF)
Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

SANTA BARBARA (CA)
A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

SANTA BARBARA CRUDE OIL
Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

SANTA CLARA RIVER (CALIF)
Relationships Between Sand Input from Rivers and the Composition of Sands from the Beaches of Southern California,
W77-03324 1007 2L

SANTA CLARA VALLEY (CALIF)
Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

SANTA CRUZ RIVER (ARIZ)
Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

SANTA ELENA PENINSULA (ECUADOR)
The Cost-Effectiveness Approach in Analyzing a Water Supply Project for the Santa Elena Peninsula, Ecuador,
W77-01270 1003 6B

SANTA MARIA VALLEY (CALIF)
Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

SANTA RITA CREEK BASIN (CALIF)
Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

SANTEE RIVER BASIN (SC-NC)
Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

SANTEE SWAMP (S. CAROLINA)
Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

SAP STREAM VELOCITY
Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

SAPONIFICATION
A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

SAPROBILITY
Planktonic Infusoria from the Volga River, (In Russian),
W77-12397 1024 2H

SAPROBITY
Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

The Relationship Between the Small Algal Flora of the Chain of Shallow Inlets to the South of Darss (South Baltic) and the Quality of These Waters, (In German),
W77-12717 1024 5C

SAPROBITY INDEX
The General Character of the Water of the Middle of the Saale River, (In German),
W77-02910 1006 5B

SAPROLEGNIA
2,4-D Reduces Saprolegnia on Fathead Minnow Eggs,
W77-06425 1013 5C

SAPROLEGNIALES
Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

SAPROPHYTIC BACTERIA
Investigations on the Influence of Salt Concentration on the Activity of Bacterial Populations from Fresh and Waste Waters, (In German),
W77-04065 1008 5C

SARATOGA LAKE (NY)
Chemical Interactions in a Eutrophic Lake,
W77-08002 1016 5C

SARGASSO SEA
Tracking a Gulf Stream Ring With SOFAR Floats,
W77-02139 1005 2L

Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

SARONIC GULF (GREECE)
Marine Cladocera (Crustacea) in the Eutrophicated and Polluted Saronic Gulf (Greece),
W77-11420 1022 5C

SARONICOS GULF (GREECE)
Comparative Study of Cladocera from the 1st Meter of Sea Water, Collected in a Polluted Zone and in Another Relatively Clean Zone, (In French),
W77-07730 1016 5C

SARONIKOS GULF (GREECE)
Trace Elements in Acartia Clausi from Elefsis Bay of the Upper Saronikos Gulf, Greece,
W77-11521 1023 5C

SARTHE RIVER (FRANCE)
Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

SASKATCHEWAN
A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

SASKATCHEWAN (CANADA)
Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

SASKATCHEWAN RIVER SYSTEM
U.B.C. Watershed Model,
W77-10969 1022 2A

SATELLITE (ARTIFICIAL)
Improving Estimates of Streamflow Characteristics Using LANDSAT-1 (ERTS-1) Imagery,
W77-06972 1014 4A

SATELLITE IMAGERY
An Analysis of Great Lakes Ice Cover from Satellite Imagery,
W77-02676 1006 2C

SATELLITES
Hydrogeological Applications of Earth Resources Technology Satellite Landsat 1 Imagery,
W77-07339 1015 7B

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

SATELLITES (ARTIFICIAL)
Water Resource Evaluation Using Photogrammetric and Remote Sensing Techniques,
W77-00937 1002 4A

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02042 1004 5C

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

An Operational Application of Satellite Snow Cover Observations - Northwest United States,
W77-02496 1005 2C

Retransmission of Hydrometric Data in Canada,
W77-02506 1005 7C

Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

Hydrologic Aspects of Space Investigations of the Earth's Surface (Literature Survey),
W77-03848 1008 7B

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-04199 1009 2C

Arizona Land Use Experiment,
W77-04245 1009 7B

The Utilization of the APT and ATS Satellite Communication Systems in Coastal Research Programs,
W77-04483 1009 2L

Remote Sensing of the Thickness and Composition of Cirrus Clouds from Satellites,
W77-06513 1013 2B

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

A Single Field of View Method for Retrieving Tropospheric Temperature Profiles from Cloud-Contaminated Radiance Data,
W77-06887 1014 2B

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Soil Moisture Detection from Skylab,
W77-08067 1016 7B

The Correlation of Skylab L-Band Brightness Temperatures with Antecedent Precipitation,
W77-08068 1016 7B

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

Sierra Nevada Snow Melt from SMS-2,
W77-10675 1021 2C

Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

Mapping.
W77-11363 1022 7C

Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

Application of LANDSAT Data to Delimitation of Avalanche Hazards in Montane Colorado,
W77-12567 1024 2C

Aerospace Research of the Environment. Geobotany, Soil Science, and Hydrology.
W77-12820 1024 7B

SATURATED FLOW

Piping in Earth Dams Constructed of Dispersive Clay; Literature Review and Design of Laboratory Tests,
W77-03112 1007 8D

On the Validity of the Theory of Flow in Saturated Swelling Materials,
W77-03280 1007 2G

Supplement to Documentation of Finite-Difference Model for Simulation of Three-Dimensional Ground-Water Flow,
W77-03329 1007 2F

Movement of Subterranean Waters in the Ecosystem of the Amazonian Campina, (In Portugese),
W77-04773 1010 2F

Saturated and Unsaturated Flow to Parallel Drains,
W77-07552 1015 4A

Water Movement Through Pedal Soils: I. Saturated Flow,
W77-10313 1021 2G

SATURATED SOILS

Formation of Chemical and Biological Denitrification Products in Flooded Soil at Controlled pH and Redox Potential,
W77-00308 1001 2G

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Comparative Efficiency of Geophysical Prospecting Techniques in Water-Saturated Sands,
W77-01361 1003 2F

A Model for the Simultaneous Production and Diffusion of Ferrous Iron in Submerged Soils,
W77-02278 1005 2G

Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: II. Theoretical,
W77-05351 1011 2G

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

On-Farm Water Management Practices for Alleviating Waterlogging and Salinity Problems in Pakistan,
W77-12763 1024 5G

Nitrogen Nutrition of Rice Plants Measured by Growth and Nutrient Content in Pot Experiments: 4. Role of the Water Regime,
W77-12858 1024 3F

SATURATED ZONE

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

SATURATION

Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

Residual Saturation of Dewatered Filter Cakes,
W77-06121 1013 5D

An Approximating Polynomial for the Computation of Saturation Vapor Pressure,
W77-06652 1014 2B

Mechanism of Gaseous Exopthalmia in the Atlantic Cod, Gadus Morhua L.,
W77-07712 1016 5C

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

SATURATION ANOMALIES

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

SATUS CREEK BASIN (WASH)

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

SAUDI ARABIA

Irrigated Forage Production Under Extreme Arid Zone Conditions in Saudi Arabia,
W77-04786 1010 3C

SAUDI ARABIA (AL HASA PROJECT)

Water and Development in Saudi Arabia,
W77-11991 1023 4B

SAVANNAH AREA (GA)

Digital Model Analysis of the Principal Artesian Aquifer, Savannah, Georgia Area,
W77-11879 1023 7C

SAVANNAH RIVER (GEO-SC)

Sediment Problems in the Savannah River Basin,
W77-02320 1005 2J

SAVANNAH RIVER (GEORGIA)

The Importance of Monitoring Change,
W77-09591 1019 5A

SAVANNAH RIVER PLANT (SC)

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

SAVANNAH RIVER (SC)

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

SAVEALLS

Characteristics of a Fluidized Bed and its Effect on the Course of the Flotation Process

(Kharakteristika pennogo sloya i ego vliyanie na khod flotatsionnogo protsessa),
W77-12355 1024 5D

SAXITOXIN
A Colorimetric Method for Determination of Saxitoxin,
W77-11047 1022 5A

SCALE EFFECT
Similitude in Coastal Engineering,
W77-00380 1001 8B

SCALE INHIBITORS
Scale Inhibition and Compounds Therefore,
W77-00686 1002 5F

SCALING
Wastewater Treatment by Reverse Osmosis,
W77-00081 1001 5D

Scale Inhibition and Compounds Therefore,
W77-00686 1002 5F

Water Conditioning Device,
W77-01727 1004 5F

Internal Treatments for Boilers Operating Above 1200 PSI,
W77-03803 1008 8G

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Geothermal Energy: Needed, Effective Heat Transfer Equipment,
W77-07301 1015 8G

Scaling Field-Measured Soil Hydraulic Properties Using a Similar Media Concept,
W77-09350 1019 2G

Prevention of Scale Formation in Evaporator Chambers (Ustranyat' obrazovanie nakipi v kamerakh vyparnoi stantsii),
W77-10691 1021 5D

Process for Scale Inhibition,
W77-11021 1022 5F

SCALLOPS
State v. Sieminski (State's Right to Regulate Scallop Fishing in the High Seas).
W77-06566 1013 6E

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

SCANNING ELECTRON MICROSCOPY (SEM)
Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

SCENDESMUS
The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures: II. Tertiary Treatment Potential of Algae, (In Dutch),
W77-00110 1001 5D

The Growth-Promoting Activity of Some Algal Metabolites on Scenedesmus Acutus,
W77-00190 1001 5C

Copper Uptake by Algae from Copper-Containing Compounds and the Effect of This Process on Their Salt Metabolism, (In Russian),
W77-05493 1011 5C

SCENEDESMUS
Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

Extraction of Iron from Water by Chlorella Vulgaris and Scenedesmus Quadricauda,
W77-11303 1022 5C

Depression of Primary Productivity by Aroclor 1232 in an Interspecific Lentic Algal Assembledge,
W77-11304 1022 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

SCENEDESMUS OBLIQUUS
Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

SCENERY
Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

Scenic Waterways (Designation, Acquisition, and Protection).
W77-10496 1021 6E

SCENIC EASEMENTS
Scenic Waterways (Designation, Acquisition, and Protection).
W77-10496 1021 6E

SCHEDULING
Pumping Policies in Water Supply,
W77-01177 1003 4A

Irrigation Scheduling for Energy and Water Conservation,
W77-02093 1005 3F

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Scientific Irrigation Scheduling for Salinity Control of Irrigation Return Flows,
W77-06098 1012 5G

A Sector Model for Regional and National Water Resources Planning,
W77-06731 1014 6A

Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

Computer Applications to Achieve Optimum Economic Loading of Generating Plants,
W77-10288 1021 6A

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

SCHELDT ESTUARY (BELGIUM)
Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

SCHINDLER PLANKTON TRAP
Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

SCHISTOSOMA
The Role of Silt in Eradication of Oncomelaniid Snails in Grassy Beaches, (In Chinese).
W77-02245 1005 5G

SCHISTOSOMATIDAE
Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

SCHISTOSOMIASIS
The Tugela-Vaal State Water Scheme as a Bilharzia Risk (Die Tugela-Vaal-Staatswaterskema as 'n Bilharziarisiko),
W77-09690 1020 5G

SCHISTOSOMIASIS *VOLTA RIVER AUTHORITY
The Environmental Impact of a Large Tropical Reservoir: Guidelines for Policy and Planning. Based Upon a Case Study of Lake Volta, Ghana, in 1973 and 1974,
W77-00767 1002 6G

SCHMIDT NUMBERS
Turbulent Transport to a Rotation Cylinder for Large Prandtl or Schmidt Numbers,
W77-02534 1005 3A

SCHOOL SHARK
Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

SCHUYLKILL RIVER (PENN)
Method for Sampling Invertebrate Drift from a Small Boat,
W77-11249 1022 5A

SCIAENIDAE
Effects of Salton Sea Water on the Eggs and Larvae of Bairdiella Icistia (Pisces: Sciaenidae),
W77-12025 1023 5C

SCIENTIFIC AND SCENIC RIVERS ACT
Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

SCIENTIFIC PERSONNEL
Giuseppe Venturoli, Pioneer in Channel Studies,
W77-03833 1008 8B

SCIOTO RIVER BASIN (OHIO)
New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

Benthic Macroinvertebrates as Indexes of Water Quality in the Scioto River Basin, Ohio,
W77-08925 1018 5A

SCIOTO RIVER (OH)
Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Columbus Area, Summary Report.
W77-03183 1007 4A

SCOLIOSIS
Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

SCOMBRIDAE
Analysis of the Taxonomic Characters of Young Scombrid Fishes, Genus Thunnus,
W77-04536 1009 2I

SCOTIA SEA
Phytoplankton Distribution in the Scotia Sea as Related to Vertical Water Circulation, (In Russian),
W77-01592 1004 5B

SCOTLAND
Climatic Inferences from Former Glaciers in the South-East Grampian Highlands, Scotland,
W77-02467 1005 2C

Control of Fjordic Deep Water Renewal by Runoff Modification,
W77-03975 1008 2L

Methane From Farm Wastes,
W77-04630 1010 5B

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

SCOUR
Digital Simulation of Aggradation and Degradation in Natural Streams,
W77-00818 1002 2J

Scour and Fill in an Ephemeral Stream,
W77-00827 1002 2J

Patterns of Scour and Fill in Pool-Rapid Rivers,
W77-00837 1002 2J

Scouring of Cohesive Soils,
W77-02127 1005 2J

Scour Around Bridge Piers,
W77-03294 1007 8B

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

General Scour and Fill Along a Stream Reach,
W77-10982 1022 8B

Stream Junctions-A Probable Location for Bedrock Placers,
W77-12322 1024 2J

SCRAM
Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

SCRAPERS
Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

SCREENING
Apparatus for Removing Solid Material from Sewage or Other Liquid,
W77-12947 1024 5D

SCREENING DEMONSTRATION
Screening Demonstration for Three Fish Processing Plant Effluents,
W77-12776 1024 5D

SCREENING MODEL
Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

SCREENING MODELS
Screening Models in Water Resources Planning, Part III,
W77-00535 1002 6A

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

SCREENS
The Design and Construction of a Screening and Pumping Station and an Outfall for the Disposal of Sewage from Brighton and Hove,
W77-02331 1005 5E

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues.
W77-03403 1007 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues,
W77-04678 1010 5D

New Screenings Removal and Dewatering Apparatus.
W77-06135 1013 5D

Screenings Dewatering Press.
W77-07029 1014 5D

Fine Screening of Raw Sewage,
W77-08629 1018 8G

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

New Development.
W77-11718 1023 5D

Single-Hearth Screenings Incinerator.
W77-12440 1024 5E

Pollution Control by Incineration,
W77-12441 1024 5E

Screening Demonstration for Three Fish Processing Plant Effluents,
W77-12776 1024 5D

SCREWWORM ERADICATION
An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

SCULPIN
Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

SCULPINS
Temperature and the Vertical Distribution of Two Tidepool Fishes (Oligocottus Maculosus, O. Snyderi),
W77-01060 1003 5C

Bioaccumulation of Mercury in Myoxocephalus Quadricornis (L.) (Teleostei, Cottidae) in an Unpolluted Area of the Baltic,
W77-02731 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Life History Notes for a Population of Slimy Sculpin (Cottus Cognatus) in an Alaskan Arctic Stream,
W77-07393 1015 5C

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

SEA BIRDS
Litter and Oil on the Shores of Utsira, Rogaland County, During Autumn 1974, (In Danish),
W77-03125 1007 5B

SEA BREEZES
The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

SEA CATFISH
Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

SEA-CLIFF BIRDS
A Comparative Sea-Cliff Bird Inventory of the Cape Thompson Vicinity, Alaska,
W77-06823 1014 6G

SEA FARMING
Sea Farming: A Means for Contributing to Feeding Mankind, (In Spanish),
W77-01421 1003 6E

SEA GRASS
Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

SEA-GRASS BEDS
Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats,
W77-05903 1012 5C

SEA GRASSES
Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

SEA HARE
Polyhalogenated Monoterpenes from the Red Alga, Plocamium Cartilagineum,
W77-02734 1006 5C

SEA ICE
Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 14. Ice.
W77-00914 1002 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

On the Development of a Seasonal Change Sea-Ice Model,
W77-01925 1004 2C

Ice Movement and Distribution in the Bering Sea from March to June 1974,
W77-02482 1005 2C

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Dynamics of Near-Shore Ice,
W77-03268 1007 2C

Dynamics of Near-Shore Ice (Data Buoys),
W77-03269 1007 2C

Study of Climatic Effects on Fast Ice Extent and its Seasonal Decay Along the Beaufort Sea Coast,
W77-03270 1007 2C

Morphology of Bering Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03272 1007 2C

Morphology of Beaufort Near Shore Ice Conditions by Means of Satellite and Aerial Remote Sensing,
W77-03273 1007 2C

Experimental Measurements of Sea Ice Failure Stresses Near Grounded Structures,
W77-03274 1007 2C

Beaufort Sea, Chukchi Sea, Bering Strait Historical Baseline Ice Study,
W77-03275 1007 2C

Development of Hardware and Procedures for In-Situ Measurement of Creep in Sea Ice,
W77-03276 1007 2C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Recent Measurements of Wind Stress on Arctic Sea Ice,
W77-03980 1008 2C

Antisymmetric Stress for Sea Ice,
W77-04240 1009 2C

Water Drag on Arctic Sea Ice,
W77-04901 1010 2C

Phase Relationships in Sea Ice as a Function of Temperature,
W77-05428 1011 2C

Method for Constructing an Ice Platform,
W77-06451 1013 3E

Rectilinear Leads and Internal Motions in the Ice Pack of the Western Arctic Ocean,
W77-07373 1015 2C

Phytoplankton Studies in the Bering Sea,
W77-07413 1015 6G

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

Impurity Concentrations in Sea Ice,
W77-08237 1017 2C

Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

Techniques for Measuring Stress in Sea Ice,
W77-10507 1021 2C

An Integrated Approach to the Remote Sensing of Floating Ice,
W77-10866 1022 2C

Arctic Continental Shelf Processes and Morphology Related to Sea Ice Zonation, Beaufort Sea, Alaska,
W77-11383 1022 2C

Observations of Medium-Scale Features Along the Seasonal Ice Edge in the Bering Sea,
W77-11809 1023 2C

Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

SEA ICE FORMATION
Heat and Salt Transfer Associated with Formation of Sea-Ice,
W77-07786 1016 2C

SEA-ICE MORPHOLOGY
Simultaneous Passive and Active Microwave Observations of Near-Shore Beaufort Sea Ice,
W77-12157 1023 2C

SEA LAMPREY
Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

SEA LAMPREYS
Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

SEA LEVEL
The Effect of the Geostrophic Flow Upon Coastal Sea Elevations in the Northern North Pacific Ocean,
W77-02477 1005 2L

Delaware's Changing Shoreline,
W77-02684 1006 2L

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

SEA LEVELS
Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

SEA LIONS
Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-07408 1015 6G

SEA OF AZOV
Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
W77-02897 1006 5G

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

SEA OF AZOV (USSR)
Procedure for Hygienic Studies in Determining Local Methods for Protecting Water Resources of Marine Bodies of Water, (In Russian),
W77-05878 1012 5B

SEA OF JAPAN
Macrophytic Algae of the Vostok Bay (Sea of Japan), (In Russian),
W77-01142 1003 5C

SEA-SKATERS
Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

SEA SURFACE TEMPERATURE
Sea Surface Temperature Fluctuations at Tidal Frequencies at Weather Ships Charlie and Delta,
W77-00137 1001 2L

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

SEA TEMPERATURE
Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

SEA THERMAL POWER
Power from the Sea,
W77-00977 1002 3E

SEA TROUT
The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

SEA TRUTH DATA
The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and

Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

SEA URCHIN SPERMATOZOA
The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

SEA URCHINS
Temperature Recording in Shallow Marine Environments,
W77-01446 1003 2L

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

SEA VARIATION
Eustatic Sea Variation in the Last 2000 Years in the Mediterranean,
W77-04271 1009 2L

SEA WATER
Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Role of the Mussel in Purifying Sea Water of Petroleum Products (In Experiment), (In Russian),
W77-00418 1001 5G

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

Multi-Stage Flash Distillation Plant,
W77-01199 1003 3A

Ocean Thermal Gradient Power Plant,
W77-01206 1003 8C

Oceanographic Apparatus,
W77-01214 1003 2L

Potential Roles of Metal-Ligands in the Marine Environment,
W77-01308 1003 5B

Theoretical Model for the Formation of Ion-Pairs in Seawater,
W77-01341 1003 2K

The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

Osmosis Process for Producing Energy,
W77-01751 1004 3A

The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

The Effect of Dissolved Organic Matter in Sea Water on the Uptake of Mixed Individual Hydrocarbons and Number 2 Fuel Oil by a Marine Filter-Feeding Bivalve (Mercenaria Mercenaria),
W77-02817 1006 5C

Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Distribution of Low-Molecular-Weight Hydrocarbons in Southern Beaufort Sea,
W77-03793 1008 5B

Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Lightness and Color of the Sea Water in the Tagonoura-Port, (In Japanese),
W77-03965 1008 5A

Use of Caspian Sea Water for Irrigation,
W77-04263 1009 3C

Salt-Resistant Crops Coming,
W77-04312 1009 3C

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Apparatus for Controlling Marine Fouling of Salt Water Coolant Heat Exchangers, Piping Systems, and the Like,
W77-04956 1010 8G

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

Copper, Zinc and Cadmium in Coastal Waters of the N.W. Mediterranean,
W77-05913 1012 5B

Salt Water Pumping Controls Sea Water Intrusion,
W77-05972 1012 2L

Dissolved Gas Saturation Anomalies and Excess Helium in the Ocean,
W77-06024 1012 5A

Analysis of Lead in Polluted Coastal Seawater,
W77-06159 1013 5A

Chlorine-Containing Pesticides and Polychlorinated Biphenyls in British Coastal Waters,
W77-06501 1013 5A

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

Blank and Salinity Corrections for Automated Nutrient Analysis of Estuarine and Sea Waters,
W77-06938 1014 5A

The Analysis of Ammonia in Polluted Sea Water,
W77-07362 1015 5A

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

Method and Apparatus for Obtaining Electrical Power from Sea Water,
W77-08032 1016 8C

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

Dissolved Amino Acids in the Equatorial Pacific, the Sargasso Sea, and Biscayne Bay,
W77-09356 1019 5A

Degradation of Parathion in Seawater,
W77-09506 1019 5B

A Unique Means of Obtaining Sea-Water,
W77-09692 1020 8E

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

Conversion of 1,1,1-Trichloro-2,2-Bis(P-chlorophenyl)Ethane (DDT) to Water-Soluble Products by Microorganisms,
W77-10742 1021 5C

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

A Viscous Antitumor Substance Obtained from a Marine Bacterium No. 9-12,
W77-11344 1022 5A

SEA WATER

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

SEA WATER ANALYSIS
Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

SEA WATER MAJOR IONS
Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

SEA WATER PREPARATION
Effect of a Seawater Preparation on Germination Rate, Seed Vigor and Formation of the Mass of Plant Seedlings, (In Russian),
W77-05171 1011 3C

SEA WATER PROPERTIES
Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

SEA WATER WEDGE
An Approximate Solution for the Transient Interface in a Coastal Aquifer,
W77-04001 1008 2F

SEABED
Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

SEABED MINING
International Seabed Regime: India's Interests and Policy Options,
W77-02424 1005 6E

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

SEABEDS
Mineral Resources of the Deep Seabed (Hearings on HR 11879 to Promote Orderly Conservation and Development of the Mineral Resource of the Deep Seabed).
W77-06556 1013 6E

Remembering Maine: Offshore Federalism in the United States and Canada,
W77-08363 1017 6E

SEABIRD EGGS
Mercury in Eggs of Norwegian Seabirds,
W77-01267 1003 5A

SEABIRDS
Environmental Assessment of the Alaskan Continental Shelf. Volume 2, Marine Birds.
W77-00902 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 4. Marine Birds.
W77-00904 1002 6G

SEABROOK (TEX)
Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

SEAFOOD PROCESSING INDUSTRY
Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

SEAGRASS
Proceedings for Second Annual Conference on the Restoration of Coastal Vegetation in Florida.
W77-03942 1008 5G

Revegetation of Thalassia Testudinum in a Multiple-Stressed Estuary, North Biscayne Bay, Florida,
W77-03944 1008 5G

Seagrass Revegetation Attempts in Escambia Bay, Florida, During 1974,
W77-03945 1008 5G

SEAL PUPS
Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

SEALANTS
Product and Method for Reducing Water Loss Through Soil by Seepage,
W77-03863 1008 3B

Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Sealing Material for Preventing Water-Leakage and Method of Manufacturing Same,
W77-11015 1022 8G

Infiltration Characteristics from Anaerobic Lagoons,
W77-11974 1023 5B

Buried Well Seals: A New Method of Reconstruction,
W77-12665 1024 5G

SEALED-JAR BIOASSAYS
Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

SEALED ROCK JOINTS (FAILURE)
Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

SEALS
Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

SEALS (SPOTTED)
An Aerial Census of Spotted Seals, Phoca Vitulina Largha,
W77-06800 1014 6G

SEARCH PROCEDURE
Designing Simulation Models for Optimization Studies,
W77-10808 1022 6A

SEASHORES
A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

Practical Legal Remedies to the Public Beach Shortage,
W77-11468 1022 6E

SEASONAL
Biological Seasons in the Zooplankton of Davis Strait,
W77-00398 1001 5C

Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

Seasonal Distributions of Larval Flatfishes (Pleuronectiformes) on the Continental Shelf Between Cape Cod, Massachusetts, and Cape Lookout, North Carolina, 1965-66,
W77-01064 1002 2L

Seasonal Variations in Concentrations of Nitrate and Total Phosphorus, and Calculated Nutrient Loading for Six Lakes in Western New York,
W77-02588 1006 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

Space-Time Correlation Function of the Field of Evaporation from the Water Surface,
W77-03849 1008 2D

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

Seasonal Abundance, Biomass, Diversity, and Trophic Structure of Fish in a Salt-Marsh Tidal Creek Affected by a Coastal Power Plant,
W77-05581 1011 5C

Seasonal Distribution and Abundance of Ohio River Fishes at the J. M. Stuart Electric Generating Station,
W77-05584 1011 5C

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Seasonal Changes in Dimensions and Viability of the Developing Eggs of the Cornish Pilchard (Sardina Pilchardus Walbaum) Off Plymouth,
W77-05825 1012 2L

Seasonal Fluctuations in the Abundance of the Larvae of Mackerel and Herring in the Northeastern Atlantic and North Sea,
W77-05834 1012 2L

Vertical and Seasonal Variability of Fish Eggs and Larvae at Ocean Weather Station 'India',
W77-05840 1012 2L

Seasonal Variation of Ichthyoplankton in the Arabian Sea in Relation to Monsoons,
W77-05843 1012 2L

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Seasonal changes in the Respiration of Pumpkinseed, Lepomis Gibbosus, Correlated with Temperature, Day Length, and Stage of Reproductive Development,
W77-06768 1014 5C

Seasonal Changes of Invertebrate Populations in the Polluted River Medlock,
W77-07121 1015 5C

A Contribution to the Life History of the Cunner, Tautogolabrus Adspersus, in Fishers Island Sound, Connecticut,
W77-07377 1015 5C

Seasonal Changes in Hematology of Rainbow Trout, Salmo Gairdneri,
W77-07403 1015 5C

Seasonal Variation in Sediment-Water Exchange of Nutrient Ions in Lake Esrom,
W77-07467 1015 5C

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
W77-08831 1018 4C

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Distribution and Seasonal Variation of Benthic Fauna in Lake Manitoba,
W77-09484 1019 5C

Seasonal Variations in Great Lakes Design Wave Heights: Lake Erie,
W77-09986 1020 8B

The Seasonal Haematology of the Small-Mouth Yellowfish (Barbus Holubi),
W77-10215 1021 5C

A Seasonal Study of the Haematology of Carp (Cyprinus Carpio) from a Locality in the Transvaal, South Africa,
W77-10216 1021 5C

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

Seasonal Change of Growth Promoting Effect of Mud Extracts and Sea Water Collected During Various Seasons at Ise Bay on a Red Tide Flagellate Heterosigma Inlandica Hada, (In Japanese),
W77-10701 1021 5C

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

Seasonal Variations in Stomatal Resistance in Cotton,
W77-11108 1022 3F

Seasonal Development of Phytoplankton Populations in Offshore Lake Michigan in 1975,
W77-11141 1022 5C

Zooplankton and Dredging: Research Perspectives from a Critical Review,
W77-11262 1022 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

The Red Tides of Malta,
W77-11334 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

Seasonal Changes of Planktonic Crustacea in Two Newfoundland Lakes,
W77-11417 1022 5C

Long-Term Fluctuations of Epibenthic Fish and Invertebrate Populations in Apalachicola Bay, Florida,
W77-12053 1023 5C

Observations on the Fish Fauna Associated with Offshore Platforms in the Northeastern Gulf of Mexico,
W77-12072 1023 2L

The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

Seasonal Development of Several Biomass Indicators in the Waters of Lake Berre and Their Relationships, (In French),
W77-12986 1024 2H

SEASONAL DISCHARGE (WATER)
Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

SEASONAL TEMPERATURE FLUCTUATIONS
Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

SEASONAL VARIATION
Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

SEASONAL VARIATIONS
Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

SEASONS
Seasonal Demarcation in Pennsylvania for Hydrological Use,
W77-03127 1007 2B

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

SEATTLE (WA)
Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

SEATTLE (WASH)
A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

SEAWATER
Hydrogen Sulfide in Bottom Water Near a Sewage Sludge Dumping Site,
W77-00620 1002 5A

SEAWEEDS
Effects of Oil on Beaches in West Cork, Ireland,
W77-03192 1007 5C

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

SECALE MONTANUM
Revegetating Coal Mine Spoils in New Mexico: A Laboratory Study,
W77-05114 1011 5G

SECCHI DISKS
Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

SECOND INTERNATIONAL CONFERENCE ON WATER LAW AND ADMINISTRATION
Conclusions and Recommendations for the United Nations Water Conference (Preliminary Outline),
W77-08965 1018 6E

SECOND ORDER KINETICS
The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

SECONDARY FLOW
Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

SECONDARY PRODUCTIVITY
Primary and Secondary Production of Plankton in Heated Lakes, (In Polish),
W77-06752 1014 5C

SECONDARY RECOVERY (OIL)
Waste Oil Study (Preliminary Report to the Congress).
W77-12897 1024 5G

SECONDARY SETTLING TANKS
Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

SECONDARY TREATMENT
Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

SECRET RAVINE (CA)
Flood Plain Information: Antelope Creek, Secret Ravine and Tributaries, Rocklin, California.
W77-11842 1023 4A

SEDIMENT
Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

SEDIMENT ANALYSERS
An Automated Rapid Sediment Analyser (ARSA),
W77-06318 1013 2J

SEDIMENT ANALYSIS
Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

SEDIMENT CONCENTRATION
Effect of Sediment Load on Stable Sand Canal Dimensions,
W77-09020 1018 8B

Sediment Concentration and Duration in Stream Channels,
W77-11825 1023 2J

SEDIMENT CONTROL
Guidelines for Sediment Control in Irrigation Return Flow,
W77-00090 1001 5G

Iowa's Experience with a Mandatory Sediment Control Law,
W77-00477 1001 6E

Comparative Costs of Erosion and Sedimentation Control Measures,
W77-00794 1002 4D

Excavated Sediment Traps Prove Superior to Dammed Ones,
W77-00797 1002 4D

Erosion and Sediment Control on Reshaped Land,
W77-00798 1002 4D

Defining the Sediment Trapping Characteristics of a Vegetative Buffer. Special Case: Road Erosion,
W77-00799 1002 4D

Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

Sediment Control at Imperial Dam,
W77-00802 1002 4D

Channel Improvements of the Missouri River,
W77-00836 1002 4D

Sediment Runoff During Highway Construction,
W77-00847 1002 4C

Vortex Velocity Prediction with Emphasis Directed Toward Vortex Tube Sediment Trap Design,
W77-01520 1003 8B

Sediment-Control Methods in Urban Development: Some Examples and Implications,
W77-04982 1010 4D

Analysis of Rehabilitation Treatment Alternatives for Sediment Control,
W77-05116 1011 4D

Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

Control of Water Pollution from Cropland, Volume 1--A Manual for Guideline Development,
W77-06097 1012 5G

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

Diminution Ratios for Planning Construction-Area Sediment Controls,
W77-06980 1014 4D

Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

A New Code for Reducing Stream Siltation,
W77-10369 1021 4D

Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

Compatible Sediment Control Practices and Tillage Systems,
W77-12181 1023 4D

Living Fencerows of the Rio San Miguel, Sonora, Mexico: Traditional Technology for Floodplain Management,
W77-12293 1024 3B

Effects of Design Factors on Sedimentation Basin Performance,
W77-12514 1024 4D

Report on State Sediment Control Institutes Program.
W77-12565 1024 5G

Erosion and Sediment Control Audiovisual Training Program, Instructor's Manual,
W77-12815 1024 5G

SEDIMENT CONTROL LAWS
Iowa's Experience with a Mandatory Sediment Control Law,
W77-00477 1001 6E

SEDIMENT CORERS
A Simple Hand Corer for Shallow Water Sampling,
W77-09715 1020 7B

SEDIMENT DEPOSITION
A Pebble-Cobble Deposit in Monterey Bay, California.
W77-09228 1019 2L

Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

SEDIMENT DEPOSITS
Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

SEDIMENT DETENTION BASINS
Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

SEDIMENT DISCHARGE
Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

Applicability of the Unit Stream Power Equation,
W77-00830 1002 2J

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

Determining Suspended Sediment Loads from Turbidity Records,
W77-04988 1010 2J

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Antierosion Role of Forest Plantings in the Steppe Zone of the Moldavian SSR, (In Russian),
W77-06745 1014 4C

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

Genetic Analysis of the Suspended Load Discharge of Mountain Rivers,
W77-10778 1021 2J

SEDIMENT DISTRIBUTION

Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

Distribution of Reservoir Sediment--Iowa and Missouri Deep Loess Hills,
W77-00825 1002 2J

Calcium Carbonate Distribution in the Surface Sediments of the Indian Ocean,
W77-01919 1004 2L

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

Heavy Metal Concentrations and Distributions in River Mouth Sediments Around the Great Lakes,
W77-03650 1008 5B

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

Distribution Thickness and Certain Physical and Chemical Properties of Bottom Sediments in the Kiev Reservoir, (In Russian),
W77-07321 1015 2J

Wassaw Island Erosion Study. Part 1: Sedimentary Framework of a Channel Margin Shoal of an Ebb Delta, Wassaw Sound, Georgia,
W77-07324 1015 2L

American Sedimentation Law and Physical Processes,
W77-08130 1017 6E

SEDIMENT LOAD

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

Effect of Sediment Load on Stable Sand Canal Dimensions,
W77-09020 1018 8B

Influence of Sediment Inflow in Phytoplankton Primary Productivity in Lake Tahoe (California-Nevada),
W77-10743 1021 5C

A New Method of Computation of the Suspended Sediment Load,
W77-12098 1023 2J

SEDIMENT LOADS

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

SEDIMENT LOSS

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

SEDIMENT MERCURY CONCENTRATIONS

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

SEDIMENT POLLUTION (OFFSHORE)

Development of a System to Detect and Monitor Sediment Pollution,
W77-00539 1002 5B

SEDIMENT PROCESSES

The Hydrologic and Sediment Processes in Natural Watershed Areas,
W77-00792 1002 4D

SEDIMENT RUNOFF

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

SEDIMENT-RUNOFF MODEL

Sediment Yield Prediction Based on Watershed Hydrology,
W77-06656 1014 4D

SEDIMENT SAMPLERS

A Time Related Automatic Total-Load Sediment Sampler,
W77-00843 1002 2J

SEDIMENT SORTING

Stability of Channel Beds by Amoring,
W77-03836 1008 8B

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

SEDIMENT SOURCES

Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

SEDIMENT SQUEEZER

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

SEDIMENT STANDARDS

The Dilemmas of Setting Sediment Standards,
W77-00806 1002 5G

SEDIMENT THICKNESS

Distribution Thickness and Certain Physical and Chemical Properties of Bottom Sediments in the Kiev Reservoir, (In Russian),
W77-07321 1015 2J

SEDIMENT THICKNESSES

Sedimentation Rates and Sediment Thicknesses in Lake Champlain: 1975-76,
W77-02193 1005 2J

SEDIMENT TRANSPORT

Modeling of Soil Movement Across a Watershed,
W77-00159 1001 2J

Adjustment of Stream-Channel Shape to Hydrologic Regime,
W77-00379 1001 8B

Similitude in Coastal Engineering,
W77-00380 1001 8B

Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

An Overview of Urban Sedimentology,
W77-00491 1001 4C

Integral-Equation Analysis of Flows Over Eroding Beds,
W77-00682 1002 2J

Proceedings of the Third Federal Inter-Agency Sedimentation Conference 1976.
W77-00775 1002 2J

Model Study of the Drag Coefficient of a Streambed Particle,
W77-00816 1002 2J

Sediment Transport Characteristics of the Upper San Francisco Bay-Delta Estuary,
W77-00817 1002 2L

On Sediment Transport Through the Grand Canyon,
W77-00821 1002 2J

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

Applicability of the Unit Stream Power Equation,
W77-00830 1002 2J

Sediment Transport in the Coastal Zone,
W77-00840 1002 2L

Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

Sediment Movement Induced by Ships in Restricted Waterways,
W77-00886 1002 2L

Coastal Engineering Data Network,
W77-00898 1002 2L

Stochastic Characteristics of Sediment Motions,
W77-01140 1003 2J

Sedimentary Model for Intertidal Mudflat Channels, with Examples from the Solway Firth, Scotland,
W77-01629 1004 2L

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

Sediment Problems in the Savannah River Basin,
W77-02320 1005 2J

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Sebastian Inlet. Glossary of Inlets Report No. 3,
W77-02673 1006 2L

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

Delaware's Changing Shoreline,
W77-02684 1006 2L

Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

Study and Evaluation of Remedial Sand Bypassing Procedures,
W77-02933 1006 2L

Model Materials Evaluation Sand Tests; Hydraulic Laboratory Investigation,
W77-02938 1006 8G

Feasibility of Monitoring Flow Patterns and Sediment and Pollutant Dispersion of Water Bodies with 24-Channel Spectral Data,
W77-02946 1006 5B

Resistance Equation for Alluvial-Channel Flow,
W77-02971 1006 8B

Flume Studies with Fine and Coarse Sands,
W77-02976 1006 2J

Minimum Unit Stream Power and Fluvial Hydraulics,
W77-03080 1007 8B

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Surface Current Observations - Beaufort Sea, 1972,
W77-03251 1007 2L

Heavy-Mineral Trends in the Beaufort Sea,
W77-03254 1007 2L

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Computer Programs for Sediment Transport, Documentation and Listing,
W77-03298 1007 2J

Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

The Role of Flocculation in the Transport of Particulate Pollutants in the Marine Environment,
W77-03646 1008 5B

Mercury Transport by Bed Sediment Movements,
W77-03647 1008 5B

Heavy Metal Concentrations and Distributions in River Mouth Sediments Around the Great Lakes,
W77-03650 1008 5B

Suspended Solids and Velocity Distributions in the Ottawa River,
W77-03655 1008 2J

Transport and Distribution of Mercury in Sediments,
W77-03669 1008 5B

Applications of ERTS Imagery and Shipboard Observations to Coastal Environments Studies. Part I - Hypersaline Environments, Part II - Coastal Circulation Analysis,
W77-03921 1008 2L

Stochastic Models of Sediment Motion on Flat Bed,
W77-03997 1008 2J

Rollers and Ripples in Sand, Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders,
W77-03998 1008 2J

Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

Some Aspects of Bottom Sediment Transport Mechanics on the Continental Shelf,
W77-04946 1010 2L

Distribution and Transportation of Suspended Sediments,
W77-04948 1010 2L

Water Resources Data for California, 1974: Part 2. Water Quality Records.
W77-04976 1010 7C

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

The Effects of Coarse Granitic Sediment on the Distribution and Abundance of Salmonids in the Central Idaho Batholith,
W77-05932 1012 4C

Properties of Channel Wandering,
W77-06305 1013 2E

A Self-Contained Facility for Analyzing Near-Bottom Flow and Associated Sediment Transport,
W77-06874 1014 2L

A Test Particle Dispersion Study in Massachusetts Bay.
W77-06880 1014 2L

Littoral Drift Estimates Along the Coastline of Florida,
W77-06882 1014 2L

Incipient Sediment Motion in Entrances with Shell Beds,
W77-06930 1014 2L

Characteristics of Water Flow at the North End of the Wassaw Barrier Island Complex. Wassaw Island Erosion Study, Part II,
W77-06939 1014 2J

Changing Needs and Opportunities in the Sediment Field,
W77-06964 1014 2J

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

Transports in Lake Superior,
W77-07176 1015 5B

Acoustic Measurement of Sediment Transport,
W77-07338 1015 2J

Mathematical Modeling of Sedimentation Transients in Sand-Bed Channels,
W77-07354 1015 2J

Effect of the Aswan High Dam on the Nile Flood and on the Estuarine and Coastal Circulation Pattern Along the Mediterranean Egyptian Coast,
W77-07363 1015 2L

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

Designing for Sediment Transport,
W77-08962 1018 4D

Beach Sand Transport: Distribution and Total Drift,
W77-09019 1018 2L

A Sediment Transport Model for Straight Alluvial Channels,
W77-09104 1019 2J

Sediment Transport and Deposition at River Mouths: A Synthesis,
W77-09705 1020 2J

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

Report on a Biologic and Sedimentologic Study Related to the Tybee Island Beach Nourishment Project and the Offshore Area for Dredge Material Disposal,
W77-10029 1020 2L

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

Transport Phases of Transition Metals in the Amazon and Yukon Rivers,
W77-10328 1021 2J

Missouri River Temperature Effects in the Transition from Dunes to Plane Bed,
W77-10572 1021 2E

Stochastic Aspects of Incipient Grain Motion on Riverbeds,
W77-10792 1021 2J

Sediment Transport Models,
W77-10793 1021 2J

Simulation Studies of Flow and Sediment Transport Using a Mathematical Model, Atchafalaya River Basin, Louisiana,
W77-10867 1022 2J

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

Nonuniform Flow in Aggrading Channels,
W77-10963 1022 8B

General Scour and Fill Along a Stream Reach,
W77-10982 1022 8B

Bed Load Sampler for Streams with Sandy Bed,
W77-11208 1022 2J

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

Sediment Concentration and Duration in Stream Channels,
W77-11825 1023 2J

Movement of Cobbles in a Gravel-Bed Stream During a Flood Season,
W77-12318 1024 2J

Deposition and Erosion in an Alluvial Channel (Les Phenomenes de Deposition et D'erosion dans un Canal Alluvionnaire),
W77-12797 1024 2J

Application of a 'Radiation-Type' Boundary Condition to the Wave-Porous Problem,
W77-12911 1024 2L

Flow Dynamics and Sediment Movement in Lockwoods Folly Inlet, North Carolina,
W77-12913 1024 2L

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

SEDIMENT TRAPS

Excavated Sediment Traps Prove Superior to Dammed Ones,
W77-00797 1002 4D

Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

A Closing, Replicate-Sample, Sediment Trap,
W77-11802 1023 2J

SEDIMENT-WATER INTERFACE

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

SEDIMENT-WATER INTERFACES

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

The Historic and Present Relationships Between Phytoplankton, Limiting Nutrients, and Sediment-Water Geochemical Processes in Selected Maine Lakes,
W77-06741 1014 5C

Seasonal Variation in Sediment-Water Exchange of Nutrient Ions in Lake Esrom,
W77-07467 1015 5C

Oxygen Uptake of Sediments in Castle Lake, California,
W77-07976 1016 5C

Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

N2 : Ar, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W77-08907 1018 5A

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

The Sediments of Lake George (Uganda). II: Release of Ammonia and Phosphate from an Undisturbed Mud Surface,
W77-09523 1019 5C

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

SEDIMENT YIELD

Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

Sediment Yield from Construction Sites,
W77-00780 1002 4C

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

Erosion and Sediment Yield in New Mexico,
W77-00782 1002 2J

Sediment Yield from Steep Lands in the Driftless Area,
W77-00786 1002 2J

Erosion and Sediment from Forest Land Uses, Management Practices and Disturbances in the Southeastern United States,
W77-00787 1002 4C

Water and Sediment Routing from Small Watersheds,
W77-00790 1002 4D

Sources and Sediment Yield of Hawaiian Watershed and Coastal Sediments,
W77-00791 1002 2J

Evaluation of an Extensive Sediment Control Effort in the Los Angeles River Basin,
W77-00801 1002 4D

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

A Stochastic Sediment Yield Model for Bayesian Decision Analysis Applied to Multipurpose Reservoir Design,
W77-01892 1004 4D

Effects of Man on the Interface of the Hydrological Cycle with the Physical Environment.
W77-02771 1006 4D

Erosion Phenomena in Drainage Basins Reflected by Sediment Flow in Rivers (Phenomenes D'Erosion des Bassins Versants Refletes par les Transports Solides des Cours D'Eau),
W77-02780 1006 2J

The Effect of Afforestation on Erosion Processes and Sediment Yield,
W77-02781 1006 4C

Predicting Sediment Yield Frequency for Rural Basins to Determine Man's Effect on Long-Term Sedimentation,
W77-02786 1006 4D

Increase of Sediment Transport Due to Large-Scale Urbanization,
W77-02790 1006 4C

Suspended Sediment Production and Building Activity in a Small British Basin,
W77-02792 1006 4C

Effect of Land Development on Soil Erosion and Sediment Concentration in an Urbanizing Basin,
W77-02793 1006 4C

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

Sediment Yield-Runoff-Drainage Area Relationships in the United States,
W77-04272 1009 2J

Relation of Erosion to Sediment Yield,
W77-04986 1010 2J

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Sediment Yield Prediction Based on Watershed Hydrology,
W77-06656 1014 4D

Current Methods Used in the Soil Conservation Service to Estimate Sediment Yield,
W77-06657 1014 4D

Changing Needs and Opportunities in the Sediment Field,
W77-06964 1014 2J

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

Sediment Yield and Land Use in Southwest United States,
W77-08178 1017 4D

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

Watershed Sediment Yield,
W77-10790 1021 4D

Determination of Sediment Yield by Transferring Rainfall Data,
W77-10804 1022 2J

Fluvial Sediment in the Arkansas River Basin, Kansas,
W77-11364 1022 2J

Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

Effects of Man on Sedimentation and Erosion in Rural Environments,
W77-12843 1024 4D

SEDIMENT YIELD FORECASTING

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

SEDIMENT YIELDS

Sediment Yields from a Mississippi Delta Watershed,
W77-00784 1002 4D

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

Evaluation of Sediment Yields Due to Urban Development,
W77-07705 1016 4D

SEDIMENTARY CHLOROPHYLL DEGRADATION PRODUCTS

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

SEDIMENTARY NUTRIENTS

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

SEDIMENTARY SOILS

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

SEDIMENTARY STRUCTURES

High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

Internal Sedimentary Structures, Vertical Stratigraphic Sequences, and Grain-size Parameter Variations in a Transgressive Coastal Barrier Complex: The Atlantic Coast of Delaware,
W77-11663 1023 2J

SEDIMENTATION

Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Urban Sediment Problems: A Statement on Scope, Research, Legislation, and Education.
W77-00556 1002 5B

Proceedings of the Third Federal Inter-Agency Sedimentation Conference 1976.
W77-00775 1002 2J

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Fault, and Soil Characteristics,
W77-00779 1002 2J

Sedimentation of a Flatland Watershed in Louisiana,
W77-00789 1002 4D

The Hydrologic and Sediment Processes in Natural Watershed Areas,
W77-00792 1002 4D

Soil Erosion Concepts and Misconceptions,
W77-00793 1002 2J

Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

Sediment Problems in the Mohave Valley - a Case History,
W77-00820 1002 4D

The Sedimentary Influence of a Tributary Stream Growth of the Niobrara Delta,
W77-00824 1002 2J

The Role of Sediment Problems in Hydroelectric Development,
W77-00826 1002 4D

Channel Changes Produced by the 1973 Flood on the Lower Mississippi River,
W77-00833 1002 2J

Sedimentation in Coon Creek Valley, Wisconsin,
W77-00835 1002 4D

Effects of Sedimentation on Coastal Zone Organisms,
W77-00838 1002 5C

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 13. Geology.
W77-00913 1002 6G

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

Equilibrium Conditions and Sediment Transport in an Ephemeral Mountain Stream,
W77-01951 1004 2J

Controlling Erosion and Sedimentation at Construction Sites,
W77-02146 1005 4D

Sediment Problems in the Savannah River Basin,
W77-02320 1005 2J

Suspended Sludge Scraper for Arcuate Sedimentation Zone,
W77-02335 1005 5D

Sebastian Inlet. Glossary of Inlets Report No. 3,
W77-02673 1006 2L

Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
W77-02789 1006 4C

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

Erosion and Deposition of Shelf Sediment: Eastern Gulf of Alaska,
W77-03258 1007 2L

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

Computer Programs for Sediment Transport, Documentation and Listing,
W77-03298 1007 2J

The Distribution and Transport of Mercury in the Sediments of the Laurentian Great Lakes System,
W77-03643 1008 5B

The Distribution and Transport of Bed Sediments and Persistent Pollutants in the Ottawa River, Canada,
W77-03645 1008 5B

The Role of Flocculation in the Transport of Particulate Pollutants in the Marine Environment,
W77-03646 1008 5B

Mercury Transport by Bed Sediment Movements,
W77-03647 1008 5B

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Reduction of Suspended Solids in Woodroom Effluents (Reduksjon av suspendert materiale i avlopsvann fra tommerrenserier),
W77-04810 1010 5D

Purification of Effluents from Barking Beech and Pine (Badania nad oczyszczaniem sciekow z korowalni drewna bukowego i sosnowego),
W77-04821 1010 5D

John's Pass and Blind Pass Glossary of Inlets Report No. 4,
W77-04841 1010 2L

Analysis of Rehabilitation Treatment Alternatives for Sediment Control,
W77-05116 1011 4D

Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Flood Effects on Stream Ecosystems,
W77-05949 1012 4D

Asbestos in Water: Mining and Processing Effluent Treatment,
W77-06218 1013 5D

Effects of Sand Sedimentation on Colonization of Stream Insects,
W77-06407 1013 5C

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

Monitoring the Marine Environment Through Sedimentation,
W77-06651 1014 2L

An Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control,
W77-06671 1014 5G

Characteristics of Water Flow at the North End of the Wassaw Barrier Island Complex. Wassaw Island Erosion Study, Part II,
W77-06939 1014 2J

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

Changing Needs and Opportunities in the Sediment Field,
W77-06964 1014 2J

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

Wassaw Island Erosion Study. Part 1: Sedimentary Framework of a Channel Margin Shoal of an Ebb Delta, Wassaw Sound, Georgia,
W77-07324 1015 2L

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Flooding Frequence of Hypersaline Coastal Environments Determined by Orbital Imagery: Geologic Implications,
W77-07751 1016 2L

Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

Controlling Sludge Bulking.
W77-07921 1016 5D

Sedimentation: Measurements in Experimental Enclosures,
W77-07990 1016 5C

Skimmer Apparatus for Sewage Settling Tanks and the Like,
W77-08088 1016 5G

American Sedimentation Law and Physical Processes,
W77-08130 1017 6E

Effects of Meandering in Alluvial Streams,
W77-08216 1017 2E

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

Shallow Marine Sand Bar Sequences: An Example from the Late Precambrian of North Norway,
W77-09699 1020 2J

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

Two-Stage Settling Improves Sludge Removal Efficiency,
W77-09875 1020 5D

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

Current Dynamics and Sediment Distribution in the West Mississippi Delta Area,
W77-10032 1020 2L

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

Sediments, Structural Framework, and Evolution of Delaware Bay, A Transgressive Estuarine Delta,
W77-10186 1021 2L

Activated Sludge,
W77-10646 1021 5D

Chlorination Seems Best for Removing Suspended Solids from Lagoon Effluents,
W77-10652 1021 5D

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

Numerical Model for Discrete Settling,
W77-11593 1023 8B

Sedimentation and Climatic Patterns in the Santa Barbara Basin During the 19th and 20th Centuries,
W77-11817 1023 2L

The Hydrologic History of the San Carlos Reservoir, Arizona, 1929-71, with Particular Reference to Evapotranspiration and Sedimentation,
W77-11870 1023 2D

Effects of Man on Sedimentation and Erosion in Rural Environments,
W77-12843 1024 4D

SEDIMENTATION EFFECTS

Effects of Sedimentation on Coastal Zone Organisms,
W77-00838 1002 5C

SEDIMENTATION ENGINEERING

Mathematical Modeling of Scour and Deposition,
W77-11207 1022 8B

SEDIMENTATION RATES
The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

Sediment Characteristics and the Trophic Status of Four Oregon Lakes,
W77-00673 1002 5B

Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

Sedimentation Rates and Sediment Thicknesses in Lake Champlain: 1975-76,
W77-02193 1005 2J

Variations of Coliform Bacteria and Other Pollution Indices in Surface Waters.
W77-03539 1007 5B

Experiments on Wastewater Sedimentation,
W77-03574 1007 5D

Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

People and the Sound. Erosion and Sedimentation,
W77-06596 1013 6B

Current Methods Used in the Soil Conservation Service to Estimate Sediment Yield,
W77-06657 1014 4D

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

American Sedimentation Law and Physical Processes,
W77-08130 1017 6E

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2J

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Estimates of Cenozoic Oceanic Sedimentation Rates,
W77-10320 1021 2L

Simulation Studies of Flow and Sediment Transport Using a Mathematical Model, Atchafalaya River Basin, Louisiana,
W77-10867 1022 2J

SEDIMENTION
Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

SEDIMENTOLOGY
Appendix 4, Limnology of Lakes and Embayments, Great Lakes Basin Framework Study.
W77-00358 1001 2H

Sedimentology and Paleoecology of Middle and Upper Eocene Carbonate Shoreline Sequences, Crystal River, Florida, U.S.A.,
W77-02545 1005 2F

Rollers and Ripples in Sand, Streams and Sky: Rhythmic Alteration of Transverse and Longitudinal Vortices in Three Orders,
W77-03998 1008 2J

Paleohydrologic Phenomena Recorded by Lake Sediments,
W77-08750 1018 2J

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

Deep Distributary Channels and Giant Bedforms in the Upper Carboniferous of the Central Pennines, Northern England,
W77-09700 1020 2J

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

SEDIMENTS
Associations of Chlorinated Hydrocarbons with Fine Particles and Humic Substances in Nearshore Surficial Sediments,
W77-00086 1001 5A

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Economic Impacts of State Environmental Programs in a National Framework: The Iowa Conservancy Law,
W77-00303 1001 6G

Iowa's Experience with a Mandatory Sediment Control Law,
W77-00477 1001 6E

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Urban Sediment Problems: A Statement on Scope, Research, Legislation, and Education.
W77-00556 1002 5B

The Delineation and Growth of a Sludge Field,
W77-00603 1002 5C

Aliphatic Hydrocarbons in Sediments of Lake Washington,
W77-00643 1002 5A

Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Interrelationships Between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II,
W77-00674 1002 5C

The Role of Sediment as a Modifying Factor in Pesticide-Algae Interactions,
W77-00713 1002 5C

Effect of Land Use on Sediment Delivery Ratios,
W77-00777 1002 2J

The Hydrologic and Sediment Processes in Natural Watershed Areas,
W77-00792 1002 4D

Determining Erosion from Hawaiian Agricultural Lands,
W77-00803 1002 4D

The Dilemmas of Setting Sediment Standards,
W77-00806 1002 5G

Suspended Sediment, Solar Radiation and Heat in Agricultural Reservoirs,
W77-00809 1002 2J

Physical and Chemical Characteristics of Sediments Originating from Missouri Valley Loess,
W77-00811 1002 5B

Sediment-Phosphorus Relations in Surface Runoff from Irrigated Lands,
W77-00812 1002 5B

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

Sediment Transport Studies in the Delta-Mendota Canal and the California Aqueduct,
W77-00822 1002 2L

Chemical and Biological mobilization of Heavy Metals from Estuarine Sediments,
W77-00839 1002 5C

Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

A Time Related Automatic Total-Load Sediment Sampler,
W77-00843 1002 2J

Radionuclides in Chesapeake Bay Sediments,
W77-01188 1003 2L

Natural Filtering of Suspended Soil by a Stream at Low Flow,
W77-01428 1003 4C

Seventeen-Year Sediment Production from a Semiarid Watershed in the Southwest,
W77-01433 1003 4D

Metal Enrichment of Sediments in Inland Waters - the Hartbeespoort Dam,
W77-01487 1003 5A

Methane, Carbon Dioxide, and Dissolved Sulfate from Interstitial Water of Coastal Marsh Sediments,
W77-01495 1003 5B

Vortex Velocity Prediction with Emphasis Directed Toward Vortex Tube Sediment Trap Design,
W77-01520 1003 8B

The Mineralogy and Geochemistry of the Sediments of Northwestern Lake Victoria,
W77-01630 1004 2J

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Calcium Carbonate Distribution in the Surface Sediments of the Indian Ocean,
W77-01919 1004 2L

A Submodel for Nitrogen Release from Sediments,
W77-02099 1005 5B

Distribution of Calcium Carbonate in Surface Sediments of the Atlantic Ocean,
W77-02133 1005 2L

Distribution of Carbonate in Surface Sediments of the Pacific Ocean,
W77-02134 1005 2L

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

Use of LANDSAT Data for Natural Resources Investigation in the Lower Basin of Danube and Danube Delta,
W77-02503 1005 2L

Sediment Dispersal Patterns as Clues to Placer-like Platinum Accumulation in and Near Chagvan Bay, Alaska,
W77-02681 1006 5B

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Comparison of 115m Cd Accumulation from Sediments and Sea Waters by Polychaete Worms,
W77-02717 1006 5B

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

A Method for the Determination of Mercury in Sediments by the Automated Cold Vapor Atomic Absorption Technique after Digestion,
W77-02811 1006 5A

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

A Study of Beaufort Sea Coastal Erosion - Northern Alaska,
W77-03266 1007 2L

Sediment Mass Balance of a Large Estuary, Long Island Sound,
W77-03323 1007 2L

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Accumulation and Distribution of Total Mercury in Estuarine Sediments,
W77-03857 1008 5B

Molecular Test for Oil Pollution in Surface Sediments,
W77-04058 1008 5B

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

Rural Road Systems as a Source of Sediment Pollution - A Case Study,
W77-04394 1009 5B

The Sorption of Iodate and Iodide by Riverine Sediments: Its Implications to Dilution Gauging and Hydrochemistry of Iodine,
W77-04874 1010 2K

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Sediment Problems and Planning in the San Francisco Bay Region, California,
W77-04989 1010 2J

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

Application of Flow-Sediment Model to Red River,
W77-05357 1011 2J

Wave Entrainment of Sediment from Rippled Beds,
W77-05445 1011 2J

Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

Mercury in the Surficial Sediments of Lake Erie,
W77-05628 1012 5B

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

An Automated Rapid Sediment Analyser (ARSA),
W77-06318 1013 2J

Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

Pesticides Data-Collection Activities of the U.S. Geological Survey in Texas,
W77-06344 1013 5B

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

Particulate Transport of Radionuclides 14C and 55Fe to Deep Waters in the Pacific Ocean,
W77-06902 1014 5B

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

Areal Distribution and Stratigraphy of Diatoms in the Sediments of Lake Sallie, Minnesota,
W77-07481 1015 5C

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Bacteriologic Analysis in the Arosa, Vigo and Pontevedra Estuaries, (In Spanish),
W77-07589 1015 5A

Effects of Sample Handling on the Composition of Marine Sedimentary Pore Water,
W77-07742 1016 5A

Sediment Measurement in Estuarine and Coastal Areas,
W77-07748 1016 2L

Pyro- and Tripoly-Phosphate Contents of Sediments,
W77-08306 1017 5A

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

Phosphorus Exchange at the Sediment-Water Interface of Selected Narragansett Bay Sediments,
W77-08502 1017 5C

SEDIMENTS

Flow Regimes in Debris Flow,
W77-09045 1018 2J

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

Oxygen Consumption by Freshwater Sediments,
W77-09348 1019 5C

Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

The Role of Humic Acids in the Uptake and Release of Mercury by Freshwater Sediments,
W77-09615 1020 5B

Competition for Mercury Between River Sediment and Bacteria,
W77-09661 1020 5B

Nitrogen Fixation in Arctic Marine Sediments: Effect of Oil and Hydrocarbon Fractions,
W77-09676 1020 5B

North Atlantic Ice-Rafting: A Major Change at 75,000 Years Before the Present,
W77-09706 1020 2J

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

A Simple Hand Corer for Shallow Water Sampling,
W77-09715 1020 7B

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Petroleum Hydrocarbons: Degradation and Growth Potential of Deep-Sea Sediment Bacteria,
W77-09772 1020 5C

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

Uptake and Release of Petroleum by Intertidal Sediments at Port Valdez, Alaska,
W77-10123 1021 5B

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

Tripolyphosphate and Pyrophosphate Hydrolysis in Sediments,
W77-10285 1021 5B

Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

Dispersion of Sediment Particles,
W77-10795 1021 2J

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Aspects of Size Distributions, Mineralogy and Geochemistry of Deltaic and Adjacent Shallow Marine Sediments, North Arctic Alaska,
W77-10897 1022 2L

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Matanzas Inlet Glossary of Inlets Report No. 5,
W77-11051 1022 2L

The Association of Transuranic Elements with Lacustrine Sediments,
W77-11136 1022 5C

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Temperature Limitation of Methanogenesis in Aquatic Sediments,
W77-11422 1022 5C

Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

Aluminum-26 in Deep-Sea Sediment,
W77-11538 1023 5B

Metal Enrichment of Sediments in Inland Waters - The Jukskei and Hennops River Drainage Systems,
W77-11578 1023 5B

A Preliminary Oceanographic Survey of the Damariscotta River Estuary, Lincoln County, Maine,
W77-11657 1023 5B

Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

A Closing, Replicate-Sample, Sediment Trap,
W77-11802 1023 2J

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-11906 1023 2L

Effect of Pulp Mill Effluent on the Surficial Sediments of Western Nipigon Bay, Lake Superior,
W77-12055 1023 5C

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

Distribution of Dehydroabietic Acid in Sediments Adjacent to a Kraft Pulp and Paper Mill,
W77-12067 1023 5B

Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

Analysis of Heavy Metals and Bacteria in Sediments from Danish Lignite Pits,
W77-12250 1023 5A

Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

Two New Methods for Obtaining Water Samples from Shallow Aquifers and Littoral Sediments,
W77-12310 1024 7B

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Elements in Aquatic Macrophytes, Water, Plankton, and Sediments Surveyed in Three North Island Lakes,
W77-12860 1024 5B

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

Effects of Water Polluted by Oil on Aquatic Animals IV. Quantitative Determination of C14-C24 N-Paraffins in Marine Sediments and Scallops (Pecten Yessoensis),
W77-12877 1024 5C

Microbiological Studies on Nitrogen Cycle in Aquatic Environments 3. Metabolic Rate of Ammonium Nitrogen in Aerated Fish Culture Ponds,
W77-12878 1024 5B

Heavy-Metal Pollution of Elbe River Sediments, (In German),
W77-12978 1024 5A

SEDIMENTS DISTRIBUTION

Transport and Distribution of Mercury in Sediments,
W77-03669 1008 5B

SEED TREATMENT

Effect of Indole Acetic Acid Presoaking of Seeds and the Quality of Water Applied on Levels of Amino Acids in Arachis Hypogea,
W77-04318 1009 3C

Influence of Seed Pretreatments on Salt Tolerance of Cotton During Germination,
W77-12831 1024 3C

SEED YIELD

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

SEEDLING
Seed Coating, Precision Planting, and Sprinkler Irrigation for Optimum Stand Establishment,
W77-12134 1023 3F

SEEDLING EMERGENCE
Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

SEEDS
Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

Experimental Ecology of Selected Vertebrate Species,
W77-03564 1007 6G

Effect of a Seawater Preparation on Germination Rate, Seed Vigor and Formation of the Mass of Plant Seedlings, (In Russian),
W77-05171 1011 3C

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed, 1. Growth, Development, Seed Yield Components and Seed Yield,
W77-11432 1022 3F

SEEPAGE
Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Seepage from Trapezoidal Canal in Anisotropic Soil,
W77-02137 1005 2G

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Simulation of Root-Zone Water and Deep Seepage to a Water Table,
W77-02295 1005 2G

Plastic-Reinforced Asphalt Seepage Barrier,
W77-03120 1007 3B

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Barnes V United States (Compensation for Flowage Easement Taken Over Plaintiffs' Lands).
W77-03709 1008 6E

Product and Method for Reducing Water Loss Through Soil by Seepage,
W77-03863 1008 3B

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

Steady Non-Darcian Seepage Through Embankments,
W77-04256 1009 2F

Hydrology of Saline Seeps in the Northern Great Plains,
W77-04268 1009 5G

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

Analysis of Permeameter Data to Obtain Parameters of Non-Darcy Flow,
W77-05148 1011 2G

Seepage from Small Earth Dams,
W77-05534 1011 8D

Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

A Statistical Filtration Model for the Inseepage of Melt Water into Frozen Ground,
W77-07672 1016 2G

Character of Seepage of Precipitation to the Water Table in the Central Forest Steppe,
W77-09043 1018 4B

Seepage from Small Earth Dams,
W77-09932 1020 8D

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

Sealing Material for Preventing Water-Leakage and Method of Manufacturing Same,
W77-11015 1022 8G

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Estimating Seepage Losses from Canal Systems,
W77-12608 1024 4A

The Unsteady Groundwater Mound Below an Irrigation Ditch or Leaky Canal,
W77-12801 1024 2G

Hydrodynamic Dispersion in Unsaturated Porous Media: II. The Stagnant Zone Concept and the Dispersion Co-Efficient,
W77-12863 1024 2G

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12929 1024 5D

SEEPAGE CONTROL
Sanitary-Hygienic Aspects of the Use of New Preparations for Controlling Seepage in Water Bodies, (In Russian),
W77-02269 1005 4A

Product and Method for Reducing Water Loss Through Soil by Seepage,
W77-03863 1008 3B

Hydrology of Saline Seeps in the Northern Great Plains,
W77-04268 1009 5G

Soil Sealing Method,
W77-05657 1012 3B

Asphalt-Rubber Mixtures for Seepage Control,
W77-08195 1017 4A

Development of a Low Cost Asphalt-Rubber Membrane for Water Harvesting Catchments and Reservoir Seepage Control,
W77-08601 1018 3B

Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12929 1024 5D

SEEPAGE FLUX
A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

SEEPAGE LOSS ESTIMATES
Estimating Seepage Losses from Canal Systems,
W77-12608 1024 4A

SEICHES
Trieste--Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

Gravitational Oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel,
W77-10109 1021 2H

Characteristics of Internal Oscillations in Lake Ontario,
W77-10331 1021 2H

Wave Induced Oscillations in Harbors with Connected Basins,
W77-10884 1022 8B

SEINE RIVER
Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

SEISMIC DESIGN
Optimization of Water Resource Systems Incorporating Earthquake Risk,
W77-02831 1006 6A

Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

SEISMIC PROPERTIES
Evaluation of In Situ Shear Wave Velocity Measurement Techniques,
W77-00737 1002 8D

Comparative Efficiency of Geophysical Prospecting Techniques in Water-Saturated Sands,
W77-01361 1003 2F

Automated Seismic Monitoring System for Lake Michigan Ice Studies,
W77-02468 1005 2C

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

SEISMIC REFRACTION
Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

SEISMIC STUDIES
Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

A Seismotectonic Study of Seismic and Volcanic Hazards in the Pribilof Islands - Eastern Aleutian Islands Region of the Bering Sea,
W77-03243 1007 2L

Earthquake Activity and Ground Shaking in and Along the Eastern Gulf of Alaska,
W77-03257 1007 2L

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

Delaware River: Evidence for Its Former Extension to Wilmington Submarine Canyon,
W77-06966 1014 2E

SELANASTRUM CAPRICORNUTUM
The Identification of Phosphorus as a Growth Limiting Nutrient in Lough Neagh Using Bioassays,
W77-06289 1013 5A

SELECTION
Compilation of Temperature Preference Data,
W77-08767 1018 7C

SELECTIVE ION ELECTRODE
Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

SELECTIVE POLLUTION CONTROL
Introductory Remarks on Environmental Control Strategies,
W77-02048 1004 6G

SELECTIVE WITHDRAWAL
Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

SELECTIVITY
Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

Studies on the Natural Relationships of Cyanophages and Their Hosts and the Nature of Resistance,
W77-10266 1021 5C

SELENASTRUM
A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

SELENASTRUM CAPRICORNUTUM
A Laboratory Evaluation of a Dye for the Control of Alagal Growth,
W77-01355 1003 5G

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

Dynamic of Nutrient Limitations in Six Small Lakes,
W77-05225 1011 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

SELENASTRUM CAPRICORNUTUM GROWTH
Effect of Nitrogen and Phosphorus on the Growth of Selenastrum Capricornutum,
W77-04160 1009 5C

SELENITE
The Effect of Selenite on the Physiological and Morphological Properties of the Blue-Green Alga Phormidium Luridum Var. Olivacea,
W77-02546 1005 5C

The Effect of Selenium on the Ultrastructure and Physiological Properties of the Blue-Green Alga, Phormidium Luridum var. Olivacea,
W77-05729 1012 5C

Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

SELENIUM
Accumulation and Distribution of Selenium in Mussel and Shrimp Tissues,
W77-00873 1002 5C

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-02751 1006 5A

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

The Effect of Selenium on the Ultrastructure and Physiological Properties of the Blue-Green Alga, Phormidium Luridum var. Olivacea,
W77-05729 1012 5C

Influence of Environmental Factors on Selenium Flux in Two Marine Invertebrates,
W77-06405 1013 5C

Dehydration of Marine Zoological Material - Volatility of Metabolised Selenium at 105-120C,
W77-10095 1020 5A

SELF PURIFICATION
Functional Design of Sanitary Sewers,
W77-00068 1001 5D

Hygienic Aspects of Microbial Contamination of Water Basins, (In Russian),
W77-00454 1001 5B

Hygienic Problems of the Formation and Prediction of Changes of Groundwater Quality in the Case of Recharging from Surface Water Sources, (In Russian),
W77-00528 1002 5B

Role of the Sedimentation in the Self-Purification of the Scheldt Estuary,
W77-00815 1002 5B

Evaluation of the Self-Purifying Ability of Waters of the Lower Don, (In Russian),
W77-01569 1004 5G

Significance of Suspended Load and Bottom Deposits in Self-Purification of the Selenga River from Petroleum Products, (In Russian),
W77-01606 1004 5G

Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
W77-02897 1006 5G

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

Investigations on the Influence of Salt Concentration on the Activity of Bacterial Populations from Fresh and Waste Waters, (In German),
W77-04065 1008 5C

Role of Populations of Plumatella Fungosa (Pallas) (Bryozoa, Phylactolema) in the Self-Purification of a Pond and a Stream, (In French),
W77-04083 1008 5G

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

Comparative Investigations on the Self-Purification in Polluted Waters of Different Salinities, (In German),
W77-04098 1008 5G

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Determination of a Zone of Sanitary Protection of Surface Sources of a Centralized Water Supply, (In Russian),
W77-05203 1011 5G

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

The Bactericidal Effect of Bdellovibrio Bacteriovorus, One of the Organisms Effective in Auto-Purification of Water, (In Turkish),
W77-05494 1011 5C

Mixing and Circulation of Lakes and Reservoirs with Air Plumes,
W77-06633 1014 5G

On the Self-Purification of Natural Waters, (In German),
W77-07038 1014 5G

Hygienic Standardization of Disodium Salts of Meta-and Para-Diisopropylbenzene in Water Bodies, (In Russian),
W77-07590 1015 5C

Self-Purification in the Coastal Waters of the Black Sea, (In Russian),
W77-07592 1015 5C

Biological Assessment of the Water Quality of the Small Rivers Sora and Byurya (Yenisei Basin), (In Russian),
W77-07755 1016 5C

SELINIUM
Microbial Formation of Volatile Selenium Compounds in Soil,
W77-09648 1020 2G

SEMI-MARKOV PROCESSES
Stochastic Models for Precipitation,
W77-10180 1021 2B

SEMIARID CLIMATES
The Consequences of Fooling Mother Nature,
W77-03738 1008 2B

Trials of Dryland Fodder Beet in Cyprus,
W77-04785 1010 3C

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

The Argillotrophic Lake System,
W77-11416 1022 5C

SEMICHEMICAL PULP MILLS
Waste Water Treatment at SCP (Semichemical Pulp), CGP (Chemigroundwood Pulp) Mills,
W77-00329 1001 5D

SEMICONTINUOUS LOADING EXPERIMENTS
Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

SEMIPERMEABLE MEMBRANES
Semipermeable Membranes and the Method for the Preparation Thereof,
W77-09817 1020 3A

Semipermeable Membranes and the Method for the Preparation Thereof,
W77-11918 1023 3A

SENSITIVE ASSAY
A Sensitive Algal Assay: An Improved Method for Analysis of Freshwaters,
W77-02524 1005 5A

SENSITIVITY ANALYSES
Sensitivity of Some Runoff Models to Errors in Rainfall Excess,
W77-09339 1019 2A

SENSITIVITY ANALYSIS
Sensitivity and Model Variance Analysis Applied to Some Evaporation and Evaportranspiration Models,
W77-02298 1005 2D

Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

Sensitivity Analysis of the Water Quality for River-Reservoir Systems Model,
W77-09981 1020 5B

Sensitivity Analysis in Aquifer Studies,
W77-12160 1023 4B

SENSORS
NASA Develops Water Monitoring System,
W77-06912 1014 5A

SENTINEL GLACIER
Canadian Glaciers in the International Hydrological Decade Program, 1965 - 1974, No. 1. Sentinel Glacier, British Columbia - Summary of Measurements,
W77-09222 1019 2C

SEPARABLE PROGRAMMING
An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

SEPARATED SEWERS
Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

SEPARATION
Treating Effluent Containing Compounds Pref. Dyes - By Adding Salt Generator of Opposite Charge to Effluent Ion then Ultra-Filtering.
W77-02612 1006 5D

Treatment of Effluent by Flotation Processes,
W77-05511 1011 5D

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-08623 1018 5D

SEPARATION OF VARIABLES
Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

SEPARATION TECHNIQUE
Clarifier with Overflow Scum Removal,
W77-07092 1014 5D

SEPARATION TECHNIQUES
Polymers Play Increased Role in Water Clarification,
W77-00082 1001 5D

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Aggregation Treatment Apparatus for Waste Water,
W77-00560 1002 5D

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

Sludge Elevator for Fluid Clarification System,
W77-00564 1002 5D

Sewage System with Reusable Flush Medium,
W77-00569 1002 5D

Treating Polluted Water.
W77-00571 1002 5D

Treatment of Sewage.
W77-00572 1002 5D

Decanting Waste Water.
W77-00573 1002 5D

Method of Wastewater Treatment,
W77-00574 1002 5D

Apparatus for Treatment of Aqueous Sewage Composition,
W77-00577 1002 5D

Treating Sewage and Recovering Usable Water and Solids,
W77-00578 1002 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

Process for Removing Dispersed Matter from Water,
W77-00684 1002 5G

Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Removal of Contaminants from Water,
W77-00687 1002 5G

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

Process for Extracting Dissolved Salts from Water,
W77-01198 1003 3A

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Chromium Removal and Recovery Process,
W77-01220 1003 5D

Oil Fence,
W77-01230 1003 5G

Treatment of Heavy Metals in Wastewater,
W77-01649 1004 5D

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

Ice Conditions and the Proposed Containment and Removal of Spilled Oil on St. Clair and Detroit Rivers,
W77-01802 1004 5G

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Steel-Plant Stackgas Cleanup: An Attractive Role for Magnetism,
W77-01996 1004 5D

Foamy Complex Formation for Removing and Recovering of Heavy Metal Ions in Dilute Solutions with N-Monodecanoyl Diethylenetriamine,
W77-01998 1004 5D

Continuous Treatment of Wool Wash Liquid - Efficiency Increased by Supplementary Closed Contaminant Treatment Circuit Linked to Liquid Cleaning Circuit.
W77-02002 1004 5D

Removing Polyvinyl Alcohol from Textile Finishing Waste Water - by Adding a Binder, e.g., a Salt or Formaldehyde, to Insolubilise the Polymer.
W77-02003 1004 5D

Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolytically Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

Suspended Sludge Scraper for Arcuate Sedimentation Zone,
W77-02335 1005 5D

Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Recent Developments in the Use of Polyelectrolytes,
W77-03569 1007 5D

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

A Zero-Relative-Velocity Belt Skimmer,
W77-03899 1008 5C

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Liquid-Solids Separation Using an Inclined Plate Clarifier,
W77-04832 1010 5D

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

Brine Desalination Process with Phase-Breaking by Cold Hydrocarbon Injection,
W77-04951 1010 3A

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

Membrane Separation Equipment,
W77-04963 1010 3A

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

Method and Apparatus for Clarifying Contaminated Liquids,
W77-05664 1012 5D

Design and Optimization of a Teflon Helix Continuous Liquid-Liquid Extraction Apparatus and its Application for the Analysis of Organophosphate Pesticides in Water,
W77-05680 1012 5A

Evaluation of XAD-2 for Multiresidue Extraction of Organochlorine Pesticides and Polychlorinated Biphenyls from Natural Waters,
W77-05692 1012 5A

Waste Treatment and Solids Separating System,
W77-06104 1013 5D

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

Algae Separation from Oxidation Pond Effluents,
W77-06184 1013 5D

Removal of Cr(+6) from Potable Water by Ion Exchange (Usuwanie zwiazkow Cr(+6) z wody pitnej za pomoca wymiany jonowej),
W77-06193 1013 5F

Designing Parallel-Plates Separators,
W77-06222 1013 5D

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Degritting and Fiber Removal System,
W77-06448 1013 5D

Cyclone with Plural Peripheral Discharge Tubes,
W77-06460 1013 5D

Partial Extraction of Metals from Aquatic Sediments,
W77-06781 1014 5A

Sludge Separator.
W77-06998 1014 5D

Apparatus for Disposal of Effluents.
W77-07002 1014 5E

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-07089 1014 5G

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

High Gradient Magnetic Separation of Food Processing Wastewater,
W77-07852 1016 5D

Coal Distn. Waste Liquor Purificn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

Flotation Treatment of Waste Water and Sewage-Using Gas Contg. Oxygen in Deep Pit to Float the Particles,
W77-07894 1016 5D

Process Could Save Millions of Pounds on Sewage Treatment Plants,
W77-07904 1016 5D

Physico-Chemical Treatment of Sewage and the Coleshill Project,
W77-07922 1016 5D

Method of Filtering Oil from Liquids,
W77-08011 1016 5G

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Oil Separator Device,
W77-08015 1016 5G

Method for Improving the Quality of Contaminated Waste Water,
W77-08090 1016 5D

Precoat for Permeability Separation Systems,
W77-08259 1017 5D

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Forward Osmosis Extractors,
W77-08340 1017 3A

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

Screening Apparatus for Removal of Solids--from Sewage with Rotating Screen and Vertical Lift for Residues.
W77-08562 1017 5D

Removal of Fluorine from Waste Waters. III. Fundamental Tests with Chemical Reagents (Haisuichu no fusso jokyo nikansuru kenkyu. III. Shiyaku kei niyoru kisoshiken),
W77-08626 1018 5D

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Flocculant Use on Tankers,
W77-08906 1018 5G

Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Application of the Rotating Flighted Cylinder to Livestock Waste Management,
W77-09795 1020 5D

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Gravitational Separator,
W77-09821 1020 5D

Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09825 1020 5D

Continuous Filter Press.
W77-09826 1020 5D

Recycling of Alum Used for Phosphorus Removal in Domestic Waste Water Treatment,
W77-09847 1020 5D

Low Cost Phosphorus Removal at Reno-Sparks, Nevada,
W77-09849 1020 5D

Organic Matter Removal by Powdered Activated Carbon Added to Activated Sludge,
W77-09850 1020 5D

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

Some Aspects of High Gradient Magnetic Separation,
W77-10349 1021 5D

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

A Model for Aluminum Phosphate Precipitation,
W77-10584 1021 5D

Experiences with Recovery of Viruses from Storm Water,
W77-11492 1022 5D

Primary Treatment.
W77-11493 1022 5D

Waste Water Organic Residue Detoxification--By Two Stage Thermal Treatment and Separation at Specified Temp.
W77-11687 1023 5D

Separation of Oil in Bilge Water by Semipermeable Membrane,
W77-11909 1023 5G

Oil/Water Separator Evaluation,
W77-11912 1023 5G

Oil/Water Separation with Noncellulosic Ultrafiltration Systems,
W77-11913 1023 5G

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

Method for Improving the Filterability of Aluminum Salts Precipitated from Aqueous Solutions,
W77-11930 1023 5D

The Swirl Concentrator for Erosion Runoff Treatment,
W77-12080 1023 5D

Magnetic Separation of Soluble Organic Pollutants from Water,
W77-12255 1024 5D

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

A Model to Predict Concentration and Head-Loss Profiles in Filtration,
W77-12406 1024 5D

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

Waste Segregation as a Means of Enhancing Onsite Wastewater Management,
W77-12430 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

Containerized Water Refiner Exchange System,
W77-12685 1024 5F

Oil-Water Separation Apparatus,
W77-12702 1024 5G

Apparatus for Clarification of Waste Water Operating on Dissolved Air Flotation Process,
W77-12703 1024 5D

Sealed Sedimentation Device,
W77-12704 1024 5D

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Waste Water Treatment Method and Apparatus,
W77-12934 1024 5D

Apparatus for the Treatment of Liquids,
W77-12938 1024 5D

Process and Apparatus for the Treatment of Water-Containing Substances and Application of this Method for the Preparation of Pasteurized Dried Sludge,
W77-12946 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

Process of Dewatering Sewage Sludge,
W77-12952 1024 5D

Process for Dewatering Sewage Sludge,
W77-12953 1024 5D

SEPTIC TANKS

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

Septic Tank Effluent Movement Through Soil,
W77-02087 1005 5B

Denitrification of Nitrified Septic Tank Effluent,
W77-02347 1005 5D

Improving Design Criteria for Septic Tank Systems,
W77-02621 1006 5D

Groundwater Quality Adjacent to a Septic Tank System,
W77-03456 1007 5D

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Enteric Virus Removal from Septic Tank Effluent by Pilot Scale Soil Absorption Systems,
W77-04389 1009 5D

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

Groundwater Pollution From a Septic Tile Field,
W77-04728 1010 5B

Method and Apparatus for Aerobic Sewage Treatment,
W77-06108 1013 5D

Septic Tank Pollution Cut.
W77-06174 1013 5D

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

Nutrient Removal and Sludge Disposal Within Septic Systems-Phase III,
W77-06686 1014 5D

SEPTIC TANKS

Septic Tank Study is Off and Running.
W77-06859 1014 5D

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

Trends in Small Sewage Treatment Plants,
W77-08569 1017 5D

A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Soils Infiltration and Evaporation of Wastewater by Aerobic Processes,
W77-10628 1021 5D

Columns Representing Mound-Type Disposal Systems for Septic Tank Effluent: II. Nutrient Transformations and Bacterial Populations,
W77-11369 1022 5D

The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

Waste Segregation as a Means of Enhancing Onsite Wastewater Management,
W77-12430 1024 5D

EPA Sets Rules on 'Ineligible' Sewers.
W77-12460 1024 5G

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12929 1024 5D

SEQUENCING

Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

SEQUENT PEAK PROCEDURE

Sequent Peak Procedure: Minimum Reservoir Capacity Subject to Constraint on Final Storage,
W77-10781 1021 4A

SERGI RIVER VALLEY (URAL)

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

SERIUM IRON LEVEL (FISH)

Serum Iron Level and Total Iron Binding Capacity in Culture Fish,
W77-11543 1023 5A

SEROLOGY

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

SERPULA

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

SERVIENT OWNERS

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

SERVIENT TRACTS

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

SESSILE ALGAE

Some Factors Effecting Algal Densities in a Eutrophic Farmland Stream,
W77-12209 1023 5C

SESTON

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Nitrogen, Phosphorus, Particulate and Colloidal Carbon Content of Sedimenting Seston of a Hard-Water Lake,
W77-07441 1015 5C

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

A Closing, Replicate-Sample, Sediment Trap,
W77-11802 1023 2J

Mercury in the Seston of the San Francisco Bay Estuary,
W77-12238 1023 5C

SETO ISLAND SEA (JAPAN)

Vitamin B12 Contents in Sea Water Along the Coast of Fukuyama in 1970 and 1971,
W77-11535 1023 5C

SETTLEABLE SOLIDS

Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

SETTLING BASINS

Excavated Sediment Traps Prove Superior to Dammed Ones,
W77-00797 1002 4D

Model Study of Riverbed Material in Canyon Ferry Dam Spillway Stilling Basin,
W77-00834 1002 2J

Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

Modelling of Processes and Plants for Waste Water Settling, (In Hungarian),
W77-01586 1004 5D

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Tall Order in Waste Treatment,
W77-03602 1008 5D

Modern Technique for Sediment Removal (Modern teknik for sedimentupptagning),
W77-03822 1008 5D

Automatic Clarity Control of Overflow from Sedimentation Tank-With Sludge Pump Actuated by Photo-Electric Check of Sample Liquid.
W77-04668 1010 5D

Sludge Settling Basin,
W77-04669 1010 5D

Spillways with Notched Overflow Edge (Vodoslivy s zubchatoi perelivnoi kromkoi),
W77-05718 1012 8B

Sewage Settling Tank,
W77-06105 1013 5D

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

Concepts for the Reclamation of Dredged Material,
W77-07352 1015 8D

Skimmer Apparatus for Sewage Settling Tanks and the Like,
W77-08088 1016 5G

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Gravitational Separator,
W77-09821 1020 5D

Two-Stage Settling Improves Sludge Removal Efficiency,
W77-09875 1020 5D

Optimal Systems of Storm Water Detention Basins in Urban Areas,
W77-10184 1021 4D

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

Potential Value of Treatment of Urban Stormwater,
W77-11675 1023 5G

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Cottonvalley--The Attractive Sewage Works.
W77-12446 1024 5D

The Construction of the First Phase of the Modernisation of Shieldhall Sewage Works in Glasgow,
W77-12450 1024 5D

Removal of Sludge from Waste Water Treatment Plant-By Rotary Sweep Footbridge with Inbuilt Suction Scraper.
W77-12457 1024 5D

Effects of Design Factors on Sedimentation Basin Performance,
W77-12514 1024 4D

SETTLING TANKS

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

SETTLING TUBES

Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

SETTLING VELOCITY

Stokes Settling and Dissolution Rate Model for Marine Particles as a Function of Size Distribution,
W77-01616 1004 2L

Current Dynamics and Sediment Distribution in the West Mississippi Delta Area,
W77-10032 1020 2L

Settling Velocities of Small Ice Crystals,
W77-10121 1021 2B

SEVERANCE DAMAGES

United States V. Winnebago Tribe of Nebraska (Severance Damages in Eminent Domain Proceedings).
W77-06561 1013 6E

SEVERE RAINSTORMS

Characteristics of the Severe Rainstorm,
W77-07784 1016 2B

SEVERN ESTUARY

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

SEWAGE

High Energy Radiation in Sludge Treatment - Status and Prospects,
W77-00022 1001 5D

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

Complexation of Trace Metals by Ethylenediaminetetraacetic Acid (EDTA) in Natural Waters,
W77-00604 1002 5A

Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Chromium and Mercury in a Soil After 80 Years of Treatment with Urban Sewage Water, (In German),
W77-01568 1004 2K

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

Eagle Lake Pollution Control Project, Eagle Lake Kandiyohi County, Minnesota, Bench Mark Studies,
W77-02215 1005 5G

Estuarine Pollution Control: Objectives and Priorities,
W77-02343 1005 5G

Practices, Policies and Technology of Storm and Combined Sewers in Foreign Countries.
W77-02767 1006 5G

Experience in Centralized Collection, Processing and Analysis of Sanitary-Hygienic Information, (In Russian),
W77-02908 1006 5A

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Reactions of Heavy Metals With Soils With Special Regard to Their Application in Sewage Wastes,
W77-03359 1007 5B

Marine Sanitation Device Standard.
W77-03531 1007 5G

Study on the Purification of Sewage Water in Soils of Western Siberia, (In Russian),
W77-04090 1008 5G

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Comparative Investigations on the Self-Purification in Polluted Waters of Different Salinities, (In German),
W77-04098 1008 5G

Potential Replacement of Septic Tank Drain Field by Artificial Marsh Waste Water Treatment Systems,
W77-04117 1009 5D

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Rising to Sewage Problems.
W77-04704 1010 5D

Determination of a Zone of Sanitary Protection of Surface Sources of a Centralized Water Supply, (In Russian),
W77-05203 1011 5G

Case of a Polluted Water Pipeline, (In Russian),
W77-05687 1012 5B

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

A Fish-Rearing System Incorporating Cages, Water Circulation, and Sewage Removal,
W77-06260 1013 5C

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

New Programs Improve Sensitive Areas of Water and Sewer Systems,
W77-06995 1014 8G

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

A Study on the Strength of Sewage,
W77-07853 1016 5B

The Problem of the Sanitary Protection of the Waters of Ports and Coastal Zones of the Black Sea Basin, (In Russian),
W77-08014 1016 5G

Bituminoid Formation in the Mud Sediments of Domestic Sewage, (In Russian),
W77-08618 1018 5A

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Sewage Discharges from Ships Transiting Coastal Salt Waters,
W77-09333 1019 5B

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Analysis of Economic Sewage Lift Station Design,
W77-09906 1020 8C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

Biological Nitrification in Contact Aeration Systems,
W77-10626 1021 5D

Occurrence of Small Metazoa in Decomposition Processes from a Comparative Viewpoint (Sewage Filters, Pattern Experiments), (In German),
W77-11532 1023 5C

Guidelines for the Quick Evaluation of the Sewage Purification Process with Activated Sludge (Przewodnik dla szybkiej oceny przebiegu oczyszczania sciekow osadem czynnym. Czesc. III. Organizmy rzadziej spotykane),
W77-11726 1023 5D

SEWAGE BACTERIA

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

The Biodegradation of Polyethylene Glycols by Sewage Bacteria,
W77-06211 1013 5D

Septic Tank Study is Off and Running.
W77-06859 1014 5D

Two-Temperature Membrane Filter Method for Enumerating Fecal Coliform Bacteria from Chlorinated Effluents,
W77-11728 1023 5A

Membrane Filter Technique for the Quantification of Stressed Fecal Coliforms in the Aquatic Environment,
W77-11736 1023 5A

Occurrence of Escherichia Coli B Bacteriophages in Municipal Wastewater and Their Removal and Inactivation by Activated Sludge Sewage Treatment,
W77-12140 1023 5A

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

SEWAGE DISPOSAL

The Delineation and Growth of a Sludge Field,
W77-00603 1002 5C

Irrigation of Corn with Simulated Municipal Sewage Effluent,
W77-00610 1002 5E

Water Supply and Sewage Treatment in Arid Areas.
W77-02173 1005 5D

The Design and Construction of a Screening and Pumping Station and an Outfall for the Disposal of Sewage from Brighton and Hove,
W77-02331 1005 5E

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Land Disposal of Sewage Sludge, Volume III, April 1974 - March, 1975,
W77-02756 1006 5D

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Innovation is an Old Idea--With A Big Future,
W77-03482 1007 5D

Individual Sewage Disposal System Act.
W77-03491 1007 6E

Boyer V Dept of Health (Location of Leach Field Relative to Water Supply).
W77-03713 1008 6E

Water and Sewage.
W77-03724 1008 6E

Potential Replacement of Septic Tank Drain Field by Artificial Marsh Waste Water Treatment Systems,
W77-04117 1009 5D

Sewage Disposal System,
W77-04675 1010 5E

Whither Village Sewage,
W77-04698 1010 5D

Ground-Water Pollution Aspects of Land Disposal of Sewage from Remote Recreation Areas,
W77-04756 1010 5B

Sewage Drains and Discharge; Refuse Disposal.
W77-05071 1010 6E

Land Disposal of Sewage,
W77-05526 1011 5D

Field Studies on the Survival of Coliforms and E. Coli in Seawater,
W77-05530 1011 5B

Freezer, Vacuum, Oven Sewage Treatment System,
W77-05653 1012 5D

Simultaneous Incineration of Refuse and Sewage Sludge: The Principles and Application at Bowhouse, Alloa, Scotland,
W77-06147 1013 5E

Private Sewage Disposal in Maine.
W77-06371 1013 5G

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

Phosphates in Soils Treated with Sewage Water: II. Fractionation of Accumulated Phosphates,
W77-07053 1014 5B

Land Application of Sewage Sludge: IV. Wheat Growth, N Content, N Fertilizer Value, and N Use Efficiency as Influenced by Sewage Sludge and Wood Waste Mixtures,
W77-07079 1014 5D

Sludge Dewatering Pilot Plant Design. Part 2,
W77-07088 1014 5D

Committee for the Consideration of the Jones Falls Sewage System V Train (Federal Common Law Concerning Water Pollution Applicable to Interstate Controversey Only),
W77-07276 1015 6E

Nitrification in Soil Treated with Domestic and Industrial Sewage Sluge,
W77-07862 1016 5E

A New Vacuum Sewage System by IFO Wartsila.
W77-07882 1016 5D

Handling Small Amounts of Crude Sewage.
W77-07886 1016 8G

Sewage Sludge Disposal: A Sticky Problem with No Fail-Safe Answer,
W77-07948 1016 5E

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

Sewage Disposal System.
W77-08563 1017 5E

Kowloon Sewage Treatment and Disposal,
W77-08573 1017 5D

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

Package Aeration Plants.
W77-09588 1019 5D

Digested Sludge: Delineation and Modeling for Ocean Disposal,
W77-09596 1019 5E

Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

Chellaston Trunk Foul Sewer. Some Interesting Aspects of the Scheme,
W77-09837 1020 5D

Growth and Benefits of Low Speed Configuration,
W77-10622 1021 5D

Amador Valley Investors v City of Livermore (The Acts of a City are not Privileged When

Private Property Damage Results from Inadequate Planning of Waste Disposal).
W77-11181 1022 6E

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

Land Disposal of Sewage Sludge, Volume IV (April , 1975 - March, 1976),
W77-12791 1024 5E

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

SEWAGE DISPOSAL FIELDS

Experiments to Investigate Substantial Load of Soils and to Predict the Long Term Effects of Wastes on Ground Water, (In German),
W77-00703 1002 5B

SEWAGE DISTRICTS

Fallen Leaf Protection Association v South Tahoe Public Utilities District (Provisions of California Water Code Requiring Specific Property Owners to Connect to Sewer Lines Upheld Against Constitutional Challenge).
W77-11182 1022 6E

Implementation of the Federal Water Pollution Control Act (Review of the Southwest Sewer District, Suffolk County, Long Island, New York).
W77-12903 1024 5G

SEWAGE EFFLUENT

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

SEWAGE EFFLUENT DISPOSAL

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

SEWAGE EFFLUENTS

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

The Effect of Sewage-Treatment-Plant Effluent on Diatom Communities in the North Branch of the Portage River, Wood Country, Ohio,
W77-00681 1002 5C

Municipal Phosphorus Loadings to Lake Erie, an Evaluation Study Prepared for the Great Lakes Water Quality Board.
W77-00926 1002 5B

Nitrogen and Phosphorus in Wastewater Effluents. (A Preliminary Analysis of National Eutrophication Survey Data Collected During 1972-73 Sampling Period).
W77-00931 1002 5C

Comparative Studies on the Isolation of Salmonella from Effluents, (In Russian),
W77-01691 1004 5A

The Economics of Waste Water-Aquaculture Systems,
W77-02069 1004 5G

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Recovery of Polluted Lakes; A Swedish Research Program on the Effects of Advanced Wastewater Treatment and Sewage Diversion: 7. Diffuse Municipal Pollution: Examples from the Towns of Motala and Uppsala, (In Swedish),
W77-03057 1006 5D

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

AWT at Woodlands, Texas,
W77-04690 1010 5D

Sewage to Aid City Power Plant.
W77-04697 1010 5D

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

Algal Growth Potential of Waste Water Effluents in Hawaiian Receiving Waters,
W77-05852 1012 5C

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

The Use and Re-Use of Sewage Effluent,
W77-06116 1013 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

NASA Develops Water Monitoring System,
W77-06912 1014 5A

Elimination of Anaerobic Digester Supernatant,
W77-07059 1014 5D

A Natural Pollution Experiment: The Effects of a Sewage Strike on the Fauna of the Thames Estuary,
W77-07124 1015 5C

Reduction in Sewage Contamination in Sydney Rock Oysters,
W77-07946 1016 5G

The Use of Sewage Effluent as Power Station Cooling Water,
W77-07949 1016 5G

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

Persistence of Mycobacterium Bovis BCG in Soil and on Vegetables Spray-Irrigated with Sewage Effluent and Sludge,
W77-08525 1017 5C

BOC Blows Bubbles in Dirty Bath Water,
W77-08564 1017 5D

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

Response of the Spokane River Diatom Community to Primary Sewage Effluent,
W77-09273 1019 5C

Mixer Cuts Solids Up and Time Down for Waste Treatment.
W77-09885 1020 5D

Productivity of Clarias Batrachus in the Sewage Fertilized Fish Ponds,
W77-09922 1020 5C

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

SEWAGE EFFLUENTS

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

Chicago Cleanup: Industry Outdoes the City.
W77-10447 1021 6E

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea,
W77-11281 1022 5A

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

Growth of Spirodela Polyrhiza in Static Sewage Effluent,
W77-12232 1023 5C

SEWAGE EJECTORS (HYDRAULIC)

Sewage Ejectors Avoid Manual Unblocking of Pipes.
W77-09856 1020 8C

SEWAGE LAGOONS

Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

Limnological Investigation of the Muskegon County, Michigan, Wastewater Storage Lagoons. Phase 1,
W77-10061 1020 5C

Lagoons and Oxidation Ponds, (Literature Review),
W77-11714 1023 5D

Laboratory Studies of Upgrading Effluent Water Quality from Sewage Lagoons,
W77-11793 1023 5D

SEWAGE LIME SLUDGE

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

SEWAGE OUTFALLS

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

Study of Marine Fauna from Rocky Substrates in the Zone of Sewage Outfall of the City of Marseille (France), (In French),
W77-12982 1024 5C

SEWAGE PONDS

Potential Replacement of Septic Tank Drain Field by Artificial Marsh Waste Water Treatment Systems,
W77-04117 1009 5D

SEWAGE SLUDGE

Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

The Past, Present, and Future Prospects of Burning Municipal Sewage Sludge Along with Mixed Municipal Refuse,
W77-00021 1001 5E

Pyrolysis of Sewage Sludge,
W77-00024 1001 5E

Effects of Sewage Sludge or Effluent Application to Soil on the Movement of Nitrogen, Phosphorus, Soluble Salts and Trace Elements to Groundwaters,
W77-00029 1001 5C

Composting Raw Sludge,
W77-00038 1001 5D

Wastewater Sludge as a Fertilizer Substitute,
W77-00046 1001 5E

Evaluation of Proposed Man-Made Ponds for Food Production to Recover Values in Waste Heat and Solid Organic Sludges,
W77-00150 1001 5D

Method for Improving Sewage Sludge Incineration,
W77-00576 1002 5E

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Variable Nature of Chemical Composition of Sewage Sludges,
W77-00602 1002 5A

Sludge,
W77-01085 1003 5G

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

Combined Filter and Dryer for Sewage Sludge Etc. - Uses Band of Vacuum Filter to Carry Cake Through Filter Press.
W77-02341 1005 5D

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Ocean Dumping Phase-Out in EPA Region II,
W77-02393 1005 5E

Land Disposal of Sewage Sludge, Volume III, April 1974 - March, 1975,
W77-02756 1006 5D

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

Sludge Incineration.
W77-03419 1007 5E

Sewage Sludge Treatment System,
W77-03487 1007 5D

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

Examination of Sewage Sludge with Special Regard to Particle Size Distribution (Klaerschlammuntersuchung Unter Besonderer Beruecksichtigung Der Teilchengroessenverteilung),
W77-04716 1010 5A

Survival of Coliform Bacteria in Sewage Sludge Applied to a Forest Clearcut and Potential Movement into Ground Water,
W77-04723 1010 5B

Recycling Sewage Waste Resources and Soil Amelioration,
W77-04827 1010 5E

Waste Disposal,
W77-04847 1010 5E

Ocean Dumping--Part 2.
W77-05037 1010 5E

Asphaltic Concrete Sludge Drying Beds,
W77-05525 1011 5D

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Study of Physical, Settling, and Thickening Characteristics of a Sludge,
W77-06197 1013 5D

Laboratory Studies on the Effect of Metals on Oxygen Uptake by Sewage Sludge in Brackish Water,
W77-06788 1014 5C

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Forms of Sulfur in Sewage Sludge,
W77-07044 1014 5A

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume 4, (Analytical Methods for Sewage Sludge Analysis),
W77-07614 1016 5A

Examination of Sewage Sludge for Enteroviruses, Volume 2,
W77-07615 1016 5B

Nitrification in Soil Treated with Domestic and Industrial Sewage Sluge,
W77-07862 1016 5E

Application of Sewage Sludge to Cropland.
W77-07869 1016 5E

Reclamation of Anthracite Coal Refuse Using Treated Municipal Wastewater and Sludge,
W77-08189 1017 5D

Response of Oat and Spinach to Sewage Sludge Application in Soil,
W77-08495 1017 5C

Cleaning of Sewage Sludge System.
W77-08561 1017 5D

Concentrations of PCBs, Dieldrin and DDT Residues in Marine Animals from Liverpool Bay,
W77-08788 1018 5C

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Hydraulic and Thermal Properties of a Sandy Soil as Influenced by Incorporation of Sewage Sludge,
W77-11236 1022 5B

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

The MIT/Marine Industry Collegium Opportunity Brief No. 6. Electron Irradiation, Sewage Sludge and Aquaculture.
W77-12915 1024 5D

SEWAGE SYSTEMS

Marine Resources Commission--Oyster Grounds--Use of Subaqueous Lands for Construction and Maintenance of Sewage Disposal Facilities.
W77-01015 1002 6E

Future Direction of Urban Water Models,
W77-01071 1003 5G

SEWAGE TREATMENT

Potential Health Impacts of Sludge Disposal on the Land,
W77-00033 1001 5C

Cross-Flow Filtration in Physical-Chemical Treatment of Municipal Sewage Effluents,
W77-00042 1001 5D

Removal vs Benefits: It Can Be Too Costly,
W77-00044 1001 5D

Activated Carbon Odor Control System,
W77-00056 1001 5D

New Acton Grange Works.
W77-00061 1001 5D

San Diego: Civil Engineering Innovations Abound.
W77-00063 1001 5D

Powdered Activated Carbon Improves Anaerobic Digestion,
W77-00067 1001 5D

The Use of Stochastic Models in the Interpretation of HIstorical Data From Sewage Treatment Plants,
W77-00121 1001 5D

Sanitary-Bacteriological Evaluation of the Method of Treatment at a Small Sewage Plant, (In Russian),
W77-00350 1001 5D

New Method of Sewage Sludge Decontamination, (In Russian),
W77-00352 1001 5D

Basf Completes Ten-Year Project for Cleaning up the Rhine,
W77-00403 1001 5D

Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

Sewage System,
W77-00561 1002 5D

Tank Clarification Plant,
W77-00563 1002 5D

Double Funnel Device for Oxygenating Sewage,
W77-00565 1002 5D

Sewage System with Reusable Flush Medium,
W77-00569 1002 5D

Apparatus for Aerobic Decomposition of Sewage,
W77-00570 1002 5D

Treatment of Sewage.
W77-00572 1002 5D

Apparatus for Treatment of Aqueous Sewage Composition,
W77-00577 1002 5D

Treating Sewage and Recovering Usable Water and Solids,
W77-00578 1002 5D

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

Automation in Sewage Processing,
W77-00586 1002 5D

Advanced Treatment and Planned Development Control County's Pollution,
W77-00593 1002 5D

Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

Liquid Treatment Apparatus,
W77-00699 1002 5D

Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

The Removal of Salt and Organic Material from Sewage Effluent by Anion Exchange Resins,
W77-01364 1003 5D

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

The Treatment of Wastewater with a Rotating Disc Unit, (Behandeling van Afvalwater met die Draaiskyfeenheid).
W77-01455 1003 5D

Treatment of Sewage with Special Reference to Aeration and Methods of Aeration,
W77-01459 1003 5D

Package Plant Owner Responsibility and Operation of Small Sewage Units,
W77-01464 1003 5D

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Modular Aerator and Separator Assembly for Sewage Treatment Facility,
W77-01743 1004 5D

Method of Biological Purification of Sewage,
W77-01746 1004 5D

Separation Chamber, Holding Tank, Drainage System,
W77-01750 1004 5D

Water Supply and Sewage Treatment in Arid Areas.
W77-02173 1005 5D

Tanks of Panel Construction.
W77-02325 1005 8A

Construction of Goscote Sewage Pumping Station,
W77-02326 1005 8C

Clarification Plant,
W77-02337 1005 5D

Fluid Sampler and Oxygen Meter for Sewage Processing - Biological Oxygen Demand Detailed Continuously by Reaction Vessel Read-Out.
W77-02340 1005 5A

Sewage Surface Aerator - Without Axial Thrust Thus Reducing Vibration from Waves.
W77-02342 1005 5D

Open Tank Pure Oxygen System Begins Operation,
W77-02359 1005 5D

Packaged Plant for Virgin Islands.
W77-02360 1005 8G

Wastewater Plant Does Nicely Without Natural Gas, Thank You,
W77-02363 1005 5D

Sandwich Construction G.R.P.
W77-02368 1005 8G

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

Land Disposal of Sewage Sludge, Volume III, April 1974 - March, 1975,
W77-02756 1006 5D

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

Recovery of Polluted Lakes; A Swedish Research Program on the Effects of Advanced Wastewater Treatment and Sewage Diversion: 7. Diffuse Municipal Pollution: Examples from the Towns of Motala and Uppsala, (In Swedish),
W77-03057 1006 5D

The Rotating Biological Filter,
W77-03282 1007 5D

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

The Impact of Fargo, North Dakota's Waste Discharges on the Interstate Waters of the Red River of the North, September 1969-April 1970,
W77-03361 1007 5B

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues.
W77-03403 1007 5D

Biological Treatment of Sewage Waters - Device with Internal Aeration Zone,
W77-03404 1007 5D

Sludge Collector and Light Liquid Separator-From Sewage with Two Tanks in Single Housing and Cover.
W77-03405 1007 5D

Sewerage Treatment Apparatus,
W77-03406 1007 5D

Biological Purification of Sewage Water-In a Multi-Stage Treatment Tank With Rotating Contactor Surfaces Partly Immersed in the Liquid.
W77-03407 1007 5D

Biological Converter for Faecal Matter in Water - Using Rotary Tubes With Fibrous Filling Supporting the Bacterial Culture.
W77-03409 1007 5D

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Toxicity of Ammonia to Algae in Sewage Oxidation Ponds,
W77-03413 1007 5D

Sludge Incineration.
W77-03419 1007 5E

Origin of Nitrogen Pollution in Surface and Waste Waters (Origines Des Pollutions Azotees Dans Les Eaux Superficielles Et Les Eaux Usees),
W77-03423 1007 5D

The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Shelters Boost Winter Treatment Efficiencies,
W77-03432 1007 5D

Behaviour in Conventional Sewage Purification Processes of Coliform Bacteria with Transferable or Non-Transferable Drug-Resistance,
W77-03435 1007 5D

Sewage Plant for British Virgin Islands.
W77-03437 1007 5D

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Large Scale Sewage Treatment Plant with Sludge Incinerator.
W77-03442 1007 5D

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

Tertiary Treatment of Sewage Effluents,
W77-03453 1007 5D

Cyanophage Analysis as a Biological Pollution Indicator-Bacterial and Viral,
W77-03460 1007 5A

A Study of Mixing Characteristics of Sewage Stabilization Ponds with Radioactive Tracers,
W77-03461 1007 5D

Use of Intrinsically Safe Instrumentation.
W77-03462 1007 5A

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

Nitrate Monitoring.
W77-03468 1007 5A

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

Transferable Drug Resistance Associated with Coliforms Isolated from Hospital and Domestic Sewage,
W77-03478 1007 5A

Innovation is an Old Idea--With A Big Future,
W77-03482 1007 5D

Grant Aid for Plant Operations: An Evaluation,
W77-03483 1007 5G

Sewage Sludge Treatment System,
W77-03487 1007 5D

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Individual Sewage Disposal System Act.
W77-03491 1007 6E

Recent Developments in the Use of Polyelectrolytes,
W77-03569 1007 5D

Sodium Bicarbonate Neutralizes,
W77-03570 1007 5D

Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Adsorption Biooxidation Treatment of Waste Waters to Remove Contaminants Thereform,
W77-03865 1008 5D

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Device for Purifying Sewage,
W77-03869 1008 5D

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

One Chemical Company's Approach to the Problem,
W77-04446 1009 5A

Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal,
W77-04641 1010 5D

Characterization and Treatment of Combined Sewer Overflows,
W77-04644 1010 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Wastewater Treatment Facility Evaluation, Rickenbacker AFB OH,
W77-04651 1010 5D

Force Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues,
W77-04678 1010 5D

Sewage Sludge Irradiation System-Applying Electron Beam Before Mixing Gap Between Endless Belts Moving at Differential Speed.
W77-04679 1010 5D

Aerobic Type Sewage Digestion System,
W77-04681 1010 5D

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Developments at Water Research Centre.
W77-04688 1010 5D

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

Sewage to Aid City Power Plant.
W77-04697 1010 5D

Whither Village Sewage,
W77-04698 1010 5D

Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

Reconcentration of Poliovirus from Sewage,
W77-04703 1010 5D

Generation of Electrical Energy From Municipal Refuse and Sewage Sludge,
W77-04705 1010 3E

Considerations for Electrical Design in Sewage Lift Stations,
W77-04706 1010 8C

Virus Movement in Soil Columns Flooded with Secondary Sewage Effluent,
W77-04712 1010 5B

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

Decision-Making for Water Quantity and Quality Control,
W77-04739 1010 5D

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

Sewage Treatment Plant,
W77-04964 1010 5D

Sewage Treatment Apparatus,
W77-04965 1010 5D

Device for Extracting Liquid from Sludge,
W77-04968 1010 5D

Sewage Drains and Discharge; Refuse Disposal.
W77-05071 1010 6E

Algal Competition in an Epilithic River Flora,
W77-05314 1011 5C

Plant Upgraded with Rotating Biological Surface System,
W77-05316 1011 5D

The Optimization of Chemical Precipitation: Flocculation of Municipal Waste Waters,
W77-05324 1011 5D

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

Freezer, Vacuum, Oven Sewage Treatment System,
W77-05653 1012 5D

The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

Analysis of Regional Waste Treatment Systems,
W77-05987 1012 5D

Sewage Settling Tank,
W77-06105 1013 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-06108 1013 5D

Sewage Treatment Devices Particularly for Marine Applications,
W77-06113 1013 5D

Pressurized Air Simplifies Conveying Sewage Solids,
W77-06115 1013 5D

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

Disinfection of Viruses in Sewage by Ozone,
W77-06128 1013 5D

Modules Permit Easy Expansion,
W77-06131 1013 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

New Screenings Removal and Dewatering Apparatus.
W77-06135 1013 5D

Georgia Plant is a Peach,
W77-06136 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

New System Provides for Growth,
W77-06152 1013 5D

Kinetics and Mechanism of Oxidation of Hydrogen Sulfide by Hydrogen Peroxide in Acidic Solution,
W77-06158 1013 5D

An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

Effect of a Secondary Treated Effluent on the Movement of Viruses Through a Cypress Dome Soil,
W77-06173 1013 5B

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

Private Sewage Disposal in Maine.
W77-06371 1013 5G

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

The Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W77-06532 1013 5D

Sewage Aeration Impeller-With Automatic De-Icing and Anti-Clogging System,
W77-07001 1014 5D

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Study on Sewage Flow Dynamics Through Dorr Type Clarifier on Stream, (Synopsis),
W77-07048 1014 5D

Phosphates in Soils Treated with Sewage Water: I. General Information on Sewage Farm, Soil, and Treatment Results,
W77-07052 1014 5G

Water Quality Criteria and Waste Water Treatment,
W77-07522 1015 5D

Biological Phosphate Elimination of Preliminarily Cleaned Communal Waste Water by Use of Iron Bacteria (Biologische Entphosphatung vorgereinigten kommunalen Abwassers unter Mitwirkung von Eisenbakterian),
W77-07856 1016 5D

'Hydig'-One Example of Controlled Sludge Use,
W77-07871 1016 5E

Handling Small Amounts of Crude Sewage.
W77-07886 1016 8G

Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

Sewage Treatment Apparatus,
W77-07896 1016 5D

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Sewage Sludge Treatment System,
W77-08030 1016 5D

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

Water Waste Treatment,
W77-08092 1016 5D

The 1972 Water Pollution Control Act: Unforeseen Implications for Land Use Planning,
W77-08373 1017 5G

Public Hearing Regarding 180-Day Notice to the Santa Fe Land Improvement Company of Violation of State and Federal Water Quality Standards for the Interstate Waters of the Kansas and Missouri Rivers, Held at Kansas City, Kansas on 13 July 1971.
W77-08381 1017 5G

Reverse Osmosis on Secondary Sewage Effluent: The Effect of Recovery,
W77-08523 1017 5D

Chlorine Combining with Sewage,
W77-08571 1017 5D

Everything from a Pipe Filter to a Turnkey Project,
W77-08572 1017 5D

Kowloon Sewage Treatment and Disposal,
W77-08573 1017 5D

Sewage Works is Above Ground Level,
W77-08574 1017 5D

1.17 Million (Pound) Works and Sewage Scheme Completed at Market Rasen.
W77-08584 1017 5D

Automatic Control of Whitlingham Sewage Treatment Works Norwich,
W77-08585 1017 5D

Moduflex Sewage Treatment Plants Provide the Answer to Growth,
W77-08588 1017 5D

Pre-Treatment in the Sewer,
W77-08596 1017 5D

Oxygen Injection for Bath's Sewers,
W77-08599 1017 5D

Sewage Treatment in Developing Countries,
W77-08635 1018 5D

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

The Effects of Chili Waste on an Activated Sludge Process,
W77-09141 1019 5D

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Clean Air Equals Dirty Water,
W77-09544 1019 5G

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-09805 1020 5D

Sewage Ejectors Avoid Manual Unblocking of Pipes.
W77-09856 1020 8C

Oxxidation Ditch Gives Low-Cost Secondary Treatment.
W77-09866 1020 5D

Study of the Decomposition of Organic Matter by the Respirometric Dilution Method (Untersuchungen ueber das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verduennungsmethode),
W77-09888 1020 5D

Chemical Treatment of Sewage,
W77-09892 1020 5D

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

Fish Water Flats Reclamation Works.
W77-10222 1021 5D

EPA Indexes Show Costs Rising at Quicker Pace.
W77-10589 1021 5D

Brazil--A Market for British Effluent and Water Treatment Plant Manufacturers,
W77-10603 1021 5D

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

Simulation and Optimisation of a Biological Water Treatment Plant,
W77-10816 1022 5D

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

Liquid Treating Apparatus,
W77-11006 1022 5D

Apparatus for Disposal of Effluents,
W77-11017 1022 5D

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

Making Waste Water Purer Still,
W77-11548 1023 5D

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

Macrophytes and Water Purification,
W77-11694 1023 5G

The Purification of Wastewater with the Aid of Rush or Reed Ponds,
W77-11695 1023 5G

Hayle's Long Wait for its Sewage Scheme is Over,
W77-11716 1023 5D

High Rate Filter at Rugby.
W77-11723 1023 5D

Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Is There a Potential for Parasitic Disease Transmission from Land Application of Sewage Effluents and Sludges,
W77-11750 1023 5E

Water Related Utilities for Small Communities in Rural Alaska,
W77-11763 1023 5D

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

Biological Evaluation of Best Practicable and Best Available Treatment Control Technology for Petroleum Refinery Wastewaters,
W77-11790 1023 5D

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

Pilot-Plant Experiments on Sewage Purification in an Activated Sludge System with a Selector (Poloprovozni Pokusy S Cistenim Mestske Odpadni Vody V Aktivacnim Systemu Se Selektorem),
W77-12423 1024 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

Actuators for Edinburgh's New Sewage Disposal Scheme.
W77-12429 1024 5D

Water Pollution Abatement Program Serves Independence, Missouri,
W77-12432 1024 5D

Bay-Area Industries to Re-Use Treated Wastewater.
W77-12437 1024 5D

Deceptive Horse Barn.
W77-12443 1024 5D

Cottonvalley--The Attractive Sewage Works.
W77-12446 1024 5D

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

EPA Sets Rules on 'Ineligible' Sewers.
W77-12460 1024 5G

North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

Inventory of Sewage Treatment Plants for Chesapeake Bay,
W77-12496 1024 5D

Method of Packing Media in a Tower or Bed,
W77-12684 1024 5D

Sewage Treatment System,
W77-12692 1024 5D

Aerated Sewerwage (sic) Effluent Disposal System,
W77-12693 1024 5D

Apparatus for Circulating and/or Aerating a Liquid,
W77-12694 1024 5D

Rotating Multitube Biocontactor for Treating Sewage,
W77-12700 1024 5D

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12701 1024 5D

Land Disposal of Sewage Sludge, Volume IV (April , 1975 - March, 1976),
W77-12791 1024 5E

The MIT/Marine Industry Collegium Opportunity Brief No. 6. Electron Irradiation, Sewage Sludge and Aquaculture.
W77-12915 1024 5D

Sewage Treatment Apparatus,
W77-12935 1024 5D

Evaporation of Treated Waste Water,
W77-12945 1024 5D

Process of Dewatering Sewage Sludge,
W77-12952 1024 5D

Process for Dewatering Sewage Sludge,
W77-12953 1024 5D

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

SEWAGE TREATMENT EFFICIENCY

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

SEWAGE TREATMENT EFFLUENT

The Effect of Secondarily Treated Sewage on the Algal Populations of the Williamantic/Shetucket Rivers,
W77-09096 1018 5C

SEWARD PENINSULA (ALAS)

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

SEWER AND WATER ACCOUNTS

User Manual for Sewer and Water Accounts Processing Module.
W77-11856 1023 5G

SEWER CONSTRUCTION

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

Demonstrating the Feasibility of Vacuum and Pressure Sewers,
W77-09834 1020 5D

SEWER FLOWS

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

SEWER MAINTENANCE

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

SEWER RATES

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

SEWER REHABILITATION

Sewer Renovation Techniques.
W77-12449 1024 8C

SEWER SYSTEM EVALUATION

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

SEWER SYSTEMS

Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

SEWERAGE

Potential Health Impacts of Sludge Disposal on the Land,
W77-00033 1001 5C

Sewering The City of New York,
W77-00070 1001 5D

Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

Advanced Treatment and Planned Development Control County's Pollution,
W77-00593 1002 5D

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

A Passive Flow Measurement System for Storm and Combined Sewers,
W77-00628 1002 5D

Why Industrial Wastewater Pretreatment,
W77-00763 1002 5D

Measures to Counteract Daily Water Pollution: Development Tendencies in USA, (In Swedish),
W77-03035 1006 5D

Ductile Iron Pipe Solves a Tough Sewer Problem at Jimerson Creek,
W77-03398 1007 8G

Innovations in Sewer Design and Construction,
W77-03399 1007 8G

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Shelters Boost Winter Treatment Efficiencies,
W77-03432 1007 5D

Behaviour in Conventional Sewage Purification Processes of Coliform Bacteria with Transferable or Non-Transferable Drug-Resistance,
W77-03435 1007 5D

Large Factory-Built Pump Station Begins Operation.
W77-03438 1007 8C

Large Scale Sewage Treatment Plant with Sludge Incinerator.
W77-03442 1007 5D

A New Method of Automatic Determination of Nitrate in Waste Waters and Polluted Surface Waters (Ein Neues Verfahren Zur Automatischen Nitrat-Bestimmung in Abwaessern und Belasteten Oberflaechenwaessern),
W77-03466 1007 5A

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

Investigation of Oxygen Transfer to Slime as a Surface Reaction,
W77-03476 1007 5B

Transferable Drug Resistance Associated with Coliforms Isolated from Hospital and Domestic Sewage,
W77-03478 1007 5A

Grant Aid for Plant Operations: An Evaluation,
W77-03483 1007 5G

SEWERAGE

Aerosol Production by Irrigation Equipment Used for Land Application of Waste Water,
W77-03484 1007 5A

Risk of Communicable Disease Infection Associated with Waste Water Irrigation in Agricultural Settlements,
W77-03485 1007 5C

Recent Developments in the Use of Polyelectrolytes,
W77-03569 1007 5D

Sodium Bicarbonate Neutralizes,
W77-03570 1007 5D

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Nestle and Pollution Control,
W77-03607 1008 5D

Human Enteric Viruses in a Waste-Recycling Aquaculture System,
W77-04636 1010 5D

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Characterization and Treatment of Combined Sewer Overflows,
W77-04644 1010 5D

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Wastewater Treatment Facility Evaluation, Rickenbacker AFB OH,
W77-04651 1010 5D

Set Sewer Rates That Reflect Use,
W77-04663 1010 5G

California Cities Launch $2 Billion in Sewerage Jobs.
W77-04665 1010 5G

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

Whither Village Sewage,
W77-04698 1010 5D

Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

Rising to Sewage Problems.
W77-04704 1010 5D

Comparison of Talc-Celite and Polyelectrolyte 60 in Virus Recovery From Sewage: Development of Technique and Experiments with Poliovirus (Type 1, Sabin)-Contaminated Multilitre Samples,
W77-04708 1010 5D

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

Environmental Impact of Urban Stormwater Runoff,
W77-04731 1010 5B

Quality Aspects of Urban Stormwater Runoff,
W77-04733 1010 5B

Decision-Making for Water Quantity and Quality Control,
W77-04739 1010 5D

Three Case Studies on the Application of the Storm Water Management Model,
W77-04742 1010 5B

Comparative Analysis of Urban Stormwater Models,
W77-04743 1010 5B

Plant Upgraded with Rotating Biological Surface System,
W77-05316 1011 5D

Milton Keynes Sewerage System Opened,
W77-05318 1011 5D

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

Analysis of Regional Waste Treatment Systems,
W77-05987 1012 5D

Design Sewers to be Self-Cleaning,
W77-06103 1013 8G

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

Sewerage for a Rural Resort Area,
W77-06987 1014 5D

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

Preventive Sewer Maintenance Helps Preserve Historic Annapolis.
W77-06990 1014 8G

Copper Sulfate Fights Root Growth in Sewer Systems,
W77-06991 1014 8G

Contract Services Stretch Sewer Maintenance Budget,
W77-06994 1014 8G

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

New Visibility for On-Site Waste Treatment Systems,
W77-07013 1014 5D

A New Vacuum Sewage System by IFO Wartsila.
W77-07882 1016 5D

Movement Joint for Concrete Sewer Bridge.
W77-07885 1016 8F

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

PLANASA--A National Plan for Water Supply and Sewerage in Brazil,
W77-08646 1018 6E

Program Hopes to Reduce Pollution from Sewer Overflow.
W77-10547 1021 5B

The Investigation of Sewer Networks by Computer,
W77-11670 1023 5G

Rhinelander Solves I and I Problems,
W77-11754 1023 5D

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

The Construction of the First Phase of the Modernisation of Shieldhall Sewage Works in Glasgow,
W77-12450 1024 5D

EPA Sets Rules on 'Ineligible' Sewers.
W77-12460 1024 5G

Easing the Burden on Treatment Works.
W77-12461 1024 5G

Surge Arrestor Controls Florida Sewage.
W77-12462 1024 8C

How to Conduct a Wastewater Survey, Part I - Identifying Physical Characteristics of Sewer Systems,
W77-12465 1024 5G

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

SEWERS

Functional Design of Sanitary Sewers,
W77-00068 1001 5D

Sewering The City of New York,
W77-00070 1001 5D

Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

Large-Diameter Corrugated Steel Pipe Enters Storm Sewer Field.
W77-00074 1001 5D

Sewer Force Main Helps Solve Pollution Problem.
W77-00075 1001 5D

Kaministiquia Interceptor Sewer Completed in Thunder Bay.
W77-00076 1001 5D

Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

A Passive Flow Measurement System for Storm and Combined Sewers,
W77-00628 1002 5D

Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Sewer Lining,
W77-01491 1003 8G

The Design and Test of a Safe and Effective Storm-Sewer Inlet,
W77-02186 1005 8B

Austin's 11 Mile Sewer Tunnel Reflects Sound Economic, Environmental Alternatives,
W77-02327 1005 5D

Thurrock Beats Peat with Piled Pipes,
W77-02328 1005 8E

Test New Sewers with Low-Pressure Air,
W77-02329 1005 8G

Precast Segments Speed Installation of Thunder Bay Sewer,
W77-02330 1005 8F

Plastic Lining Overcomes Rugged Terrain,
W77-02333 1005 8G

Emergency Repair of a Deep Storm Sewer Line,
W77-02350 1005 8G

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Practices, Policies and Technology of Storm and Combined Sewers in Foreign Countries.
W77-02767 1006 5G

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

Mechanical Mole Burrows Sewer Tunnel,
W77-03397 1007 8C

Infiltration/Inflow Improvements in the Oyster Bay Sewer District,
W77-03401 1007 5D

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Conducting Sewer System Evaluations for Small Systems,
W77-03581 1007 5D

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Stormwater Tunnel Cuts Drainage Costs.
W77-04654 1010 5D

Conducting a Sewer Infiltration/Inflow Survey to Eliminate 20 MGD,
W77-04658 1010 2G

Forte Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

Optimal Design of Multilevel Branching Sewer Systems,
W77-05192 1011 5D

Model for Layout and Design of Sewer Systems,
W77-05195 1011 5D

Advanced Methodologies for Design of Storm Sewer Systems,
W77-05927 1012 5D

The Growth Shapers: The Land Use Impacts of Infrastructure Investments.
W77-06601 1014 6D

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

Telescoping Form System Speeds Sewer Concreting.
W77-07879 1016 8F

Gas Detectors Determine Health Hazards in Sewage Treatment.
W77-07880 1016 5A

How to Determine Waste Water Flow,
W77-07881 1016 5F

Increasing Sewer Capacity by Polymer Dosing,
W77-07883 1016 8G

Study of In-Service Bituminized Fiber Sewer Pipe,
W77-07884 1016 8G

Handling Small Amounts of Crude Sewage.
W77-07886 1016 8G

The Conception, Design, and Construction of Metropolitan Toronto Mid-Toronto Sewer,
W77-07888 1016 8B

Plastic Sewer Pipe Materials.
W77-07931 1016 8G

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Construction and Maintenance Costs of Sewer Systems (Bau- und Betriebskosten von Kanalisationsanlagen),
W77-08542 1017 8A

Polyethylene Sewer Force Main Takes Varying Pressures.
W77-08549 1017 8G

The Protection and Repair of Underground Pipelines for Water and Sewage,
W77-08551 1017 8G

Post-Tensioned Sewer River Crossing.
W77-08552 1017 8E

Plain-End Pipe 'Collars' Problem Sewer Connections,
W77-08553 1017 8G

Ideas Aplenty-But Still Sewers Face Cash Neglect.
W77-08554 1017 8G

Seabed Sewers for Hong Kong,
W77-08555 1017 5E

Concrete Bucket Distributes Crushed Bedding Evenly on Sewer Job.
W77-08556 1017 8F

BOC Blows Bubbles in Dirty Bath Water,
W77-08564 1017 5D

Pre-Treatment in the Sewer,
W77-08596 1017 5D

Oxygen Injection for Bath's Sewers,
W77-08599 1017 5D

New Plymouth Sewerage Scheme,
W77-08632 1018 5D

Joint Use of SWMM and Storm Models for Planning Urban Sewer Systems,
W77-09172 1019 5D

New Models for Optimal Sewer System Design,
W77-09205 1019 5D

SWAN, A Sewer Analysis and Modeling System,
W77-09206 1019 5D

Corrosion Avoidance in Water and Sewage Pipelines,
W77-09832 1020 8F

Static Calculation of Drainage Channels and Pipes (Die statische Berechnung von Entwasserungskanalen und-leitungen),
W77-09833 1020 8G

Demonstrating the Feasibility of Vacuum and Pressure Sewers,
W77-09834 1020 5D

Chellaston Trunk Foul Sewer. Some Interesting Aspects of the Scheme,
W77-09837 1020 5D

Design Proposals for Submersible Sewage Lift Stations,
W77-09839 1020 8C

Pennsylvania Waste Water Project Progresses Quickly.
W77-09840 1020 5D

Critical and Brink Depths in Elliptical Sewers,
W77-09841 1020 8B

City of Minnetonka Wing Lake Trunk Sewer: City of Minnetonka, Minnesota.
W77-09842 1020 5D

New Sewer System Resists Infiltration.
W77-09843 1020 5D

Hydrogen Peroxide Subdues Waste Water Plant Problems.
W77-09858 1020 5D

Saffron Walden Opens Its Low Profile Sewage Works,
W77-09872 1020 5D

Advance Sewer Planning for Rio de Janeiro Coastline,
W77-09890 1020 5D

Lacey, Olympia, Tumwater, and Thurston County Wastewater Treatment,
W77-09898 1020 5D

The Identification and Adaptive Prediction of Urban Sewer Flows,
W77-09914 1020 5B

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

Inspection and Repair of Main-Sewers (L'Inspection et la Reparation des Collecteurs d'Egouts),
W77-10541 1021 5D

Collection, Treatment and Reutilization of Waste Waters in Arid Zones of the Middle East,
W77-10591 1021 5D

PVC Sewer Pipe Survives Deep Burial.
W77-10592 1021 8G

A Note on Sewer Design,
W77-10599 1021 5D

Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

Sewer Maintenance and Rehabilitation.
W77-11499 1022 5D

Collection Systems.
W77-11500 1022 5D

Ball Cleaning of Sewer Pipes,
W77-11566 1023 8G

The Investigation of Sewer Networks by Computer,
W77-11670 1023 5G

Rhinelander Solves I and I Problems,
W77-11754 1023 5D

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Sewer Renovation Techniques.
W77-12449 1024 8C

Heavy Rains, Poor Soil Force Internal Sewer Repair.
W77-12459 1024 8F

Easing the Burden on Treatment Works.
W77-12461 1024 5G

Handbook for Sewer System Evaluation and Rehabilitation.
W77-12479 1024 5D

The Use of Bacteria to Reduce Clogging of Sewer Lines by Grease in Municipal Sewage,
W77-12492 1024 5G

Catchbasin Technology Overview and Assessment,
W77-12495 1024 5D

Water Quality, Conduits, and Geometrics.
W77-12499 1024 8F

SEXUAL MATURITY
Acceleration of Sexual Maturation of the Rainbow Trout Salmo Gairdneri Rich. Under the Effect of an Elevated Water Temperature, (In Russian),
W77-10987 1022 5C

SEYCHELLES
Rainfall in the Seychelles 1941 to 1970,
W77-03096 1007 2B

SH-GROUPS
Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

SHAD
Observations on Gas Bubble Disease Among Wild Aduit Columbia River Fishes,
W77-02705 1006 5C

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

SHADES CREEK BASIN
Urbanization and Flooding in Shades Creek Basin, Jefferson County, Alabama,
W77-06977 1014 4C

SHAGAWA LAKE (MINN)
The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

SHALES
Plain End Pipe Means Production Efficiency,
W77-04660 1010 8G

Concentration and Distribution of Elements in Plants and Soils Near Phosphate Processing Factories, Pocatello, Idaho,
W77-09444 1019 5B

SHALLOW AQUIFERS
High-Resolution Seismic Reflection Profiling for Mapping Shallow Aquifers in Lee County, Florida,
W77-03344 1007 7B

SHALLOW GROUNDWATER
Nitrogen Contamination Sources in Shallow Ground Water, Las Vegas Area, Nevada,
W77-07141 1015 5B

SHALLOW HOMOGENEOUS LAKES
Transient Finite Element Shallow Lake Circulation,
W77-05806 1012 2H

SHALLOW LAKES
A Simple Method for Determining the Evaporation from Shallow Lakes and Ponds,
W77-00127 1001 2D

SHALLOW MARINE SAND BARS
Shallow Marine Sand Bar Sequences: An Example from the Late Precambrian of North Norway,
W77-09699 1020 2J

SHALLOW PLASTIC DRAINTUBES
Shallow Subsurface Drainage-Field Performance,
W77-05441 1011 4A

SHALLOW SEAS
Mean Circulation in Shallow Seas,
W77-03753 1008 2L

SHALLOW WATER
Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

Temperature Recording in Shallow Marine Environments,
W77-01446 1003 2L

Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters,
W77-01789 1004 5C

Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

Nearshore Wave Direction Gage,
W77-06516 1013 7B

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

SHALLOW-WATER ORGANISMS
New Sampler for Shallow-Water Benthic Macroinvertebrates,
W77-08801 1018 7B

SHAMOKIN CREEK WATERSHED (PA)
Special Watershed Projects.
W77-05292 1011 4D

SHANNON DIVERSITY INDICE
The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

SHAPE
Alternative Measures of River Channel Shape and Their Significance,
W77-08241 1017 8B

Shape of a Streamline Water Table Near Inflow and Outflow Boundaries,
W77-09023 1018 2F

Modeling of Stream Geometry and Its Applications,
W77-10791 1021 2E

SHARE PROTECTION
Shoreland Regulation in Wisconsin,
W77-01087 1003 6E

SHARKS
Effects of Species, Sex, Length and Locality on the Mercury Content of School Shark Galeorhinus Australis (Macley) and the Gummy Shark Mustelus Antarcticus Guenther from South-Eastern Australian Waters,
W77-05908 1012 5C

Mercury in Shark in Western Australia - A Preliminary Report,
W77-12635 1024 5B

SHARP CRESTED WEIRS
The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

SHASTA DAM
Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

SHASTA MINING DISTRICT (CALIF)
Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

SHATT AL-ARAB (IRAQ AND IRAN)
Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

SHAWSHEEN RIVER (MA)
Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

SHAYLER RUN (OHIO)
Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

SHEAR
A Study of Some Effects of Vertical Shear on Thunderstorms,
W77-00168 1001 2B

Evaluation of In Situ Shear Wave Velocity Measurement Techniques,
W77-00737 1002 8D

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

SHEAR DRAG
Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

SHEAR FLOW
Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

SHEAR FLOW DISPERSION
An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

SHEAR RIDGES
Mechanics of Origin of Pressure Ridges, Shear Ridges and Hummock Fields in Landfast Ice,
W77-03271 1007 2L

SHEAR STRESS
Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

An Experimental Investigation of the Rainfall on the Turbulence Properties of Overland Flow,
W77-04177 1009 2E

Roughness Effects on the Flow Direction Near Curved Stream Beds,
W77-09038 1018 8B

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

SHEAR WAVES
Evaluation of In Situ Shear Wave Velocity Measurement Techniques,
W77-00737 1002 8D

SHEARED COORDINATE SYSTEM
A Sheared Coordinate System for Storm Surge Equations of Motion with a Mildly Curved Coast,
W77-02674 1006 2B

SHEEFISH
Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
W77-00522 1001 2I

SHEET FLOW
Hydraulics of Sheet Flow in Wetlands,
W77-06929 1014 8B

Behaviour and Physical Stability of Sheetflow in Surface Runoff Models,
W77-12094 1023 2E

SHEET PILING
Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume IX. Sheet Pile Walls and T-Walls,
W77-10136 1021 8B

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VIII. Pile Foundations and Sheet Pile Cells,
W77-10334 1021 8A

Interface Between Two Dissimilar Fluids Beneath a Sheetpile Cofferdam,
W77-12807 1024 8B

SHELBYVILLE LAKE (ILL)
Water Supply from Shelbyville and Carlyle Lakes and Their Optimal Joint Operation,
W77-09943 1020 4A

SHELF TOPOGRAPHY
Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

SHELL DISEASE
Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

SHELL REGROWTH
Field Studies of Shell Regrowth as a Bioindicator of Eastern Oyster (Crassostrea Virginica Gmelin) Response to 2,4-D BEE in Maryland Tidewaters,
W77-12233 1023 5A

SHELLFISH
Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Metabolic Adaptations on the Aerobic-anaerobic Transition in the Sea Mussel, Mytilus Edulis L.,
W77-01242 1003 5C

LCH Fluctuations in Mytilus Edulis L. in Relation to Shell Movements Under Aerobic and Anaerobic Conditions,
W77-01244 1003 5C

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

The Aquaculture of Fresh Water Prawns, Macrobrachium Species,
W77-02209 1005 3E

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Demersal Fish and Shellfish Assessment in Selected Estuary Systems of Kodiak Island,
W77-06847 1014 6G

Offshore Oil and Fishery Resources,
W77-07195 1015 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

SHELLFISH

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Effects of Polychlorinated Biphenyl and a Polychlorinated Dibenzofuran on Molting of the Fiddler Crab, Uca Pugilator,
W77-12650 1024 5C

SHELLFISH FARMING

Blue Gold: Mariculture of the Edible Blue Mussel (Mytilus Edulis),
W77-00386 1001 6C

On the Oceanographic Conditions of Oyster Farming Area Near Chungmu, (In Korean),
W77-00498 1001 2L

Harvesting the Ocean--On Land,
W77-00718 1002 5G

Marine Resources Commission--Oyster Grounds--Use of Subaqueous Lands for Construction and Maintenance of Sewage Disposal Facilities.
W77-01015 1002 6E

Legal Considerations Concerning Oyster Cultivation in Florida,
W77-01092 1003 6E

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Closed-Cycle Mariculture in Maryland, Virginia, and Delaware: An Examination of the Adaptability of Existing Fishery Laws to New Technology,
W77-06052 1012 6E

Use of Quicklime to Increase Oyster Seed Production,
W77-07122 1015 5C

Shell Deformity Among Scallops (Argopecten Irradians Lamark) Cultured in a Recirculating Seawater System,
W77-07123 1015 5C

SHEMYA ISLAND (ALASKA)

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

SHETUCKET RIVER (CONN)

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

SHEYENNE RIVER BASIN (N DAK)

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

A Population Profile of the Lower Sheyenne River Basin in North Dakota,
W77-12272 1024 6B

SHIELDS DIAGRAM

Incipient Transport of Fine Grains and Flakes by Fluids-Extended Shields Diagram,
W77-10116 1021 2J

SHIGAPHAGES

Shigella Research in the Sea and in an Estuary: II. Attempt to Inhibit the Adsorption of Shigaphages and Studies of Shigella on a Selective Medium, (In French),
W77-01021 1002 5B

SHIGELLA

Shigella Research in the Sea and in an Estuary: I. Frequency of Bacteriophages in Polluted Water, (In French),
W77-01020 1002 5B

Shigella Research in the Sea and in an Estuary: II. Attempt to Inhibit the Adsorption of Shigaphages and Studies of Shigella on a Selective Medium, (In French),
W77-01021 1002 5B

Shigella Research in the Sea and in an Estuary: III. In Vitro Determination of the Survival Time of Shigella Sonnei YCD in Sea Water, (In French),
W77-01022 1002 5B

SHIGELLA-SONNEI

Shigella Research in the Sea and in an Estuary: III. In Vitro Determination of the Survival Time of Shigella Sonnei YCD in Sea Water, (In French),
W77-01022 1002 5B

SHIGELLAS

Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

SHINERS

Life History Patterns in the Coastal Shiner, Notropis Petersoni, Fowler,
W77-07386 1015 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Nitrofurazone for Control of the Microsporidan Parasite Pleistophora Ovariae in Golden Shiners,
W77-12008 1023 5G

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

Effect of Ferric Hydroxide Suspension on Blood Chemistry in the Common Shiner, Notropus cornutus,
W77-12237 1023 5C

SHIP CREEK (AK)

Special Flood Hazard Report: Ship Creek, Alaska.
W77-06591 1013 4A

SHIP MOTION DATA

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

SHIP'S DISCHARGES

Sewage Discharges from Ships Transiting Coastal Salt Waters,
W77-09333 1019 5B

SHIPBOARD ENVIRONMENTAL DATA ACQUISITION

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

SHIPS

Pelagic Tar,
W77-00969 1002 5B

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

Ship-to-Shore Sewage Hose Handling Tests,
W77-03364 1007 5D

Marine Sanitation Device Standard.
W77-03531 1007 5G

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

Marine Sanitation.
W77-03720 1008 6E

Time Bomb in the Mediterranean,
W77-04919 1010 5G

Sewage Treatment Devices Particularly for Marine Applications,
W77-06113 1013 5D

Enforcement of Oil Pollution Legislation,
W77-06543 1013 5G

The 1973 IMCO Convention: Tightening the Controls on Operational Oil Pollution from Tankers,
W77-07244 1015 5G

United States V Osage Company (Removal of Sunken Boats Obstructing Navigable Waters Owner's Responsibility).
W77-08150 1017 6E

Sinkage and Resistance for Ships in Channels,
W77-08873 1018 8B

Amend the Merchant Marine Act of 1920 (Hearings on S 2422 to Include the Virgin Islands Within the Scope of the Act With Respect to Transportation of Oil and Oil Products).
W77-08982 1018 6E

Site Evaluation and Preconstruction Testing at Potential Deepwater Port Locations.
W77-08989 1018 6E

Sewage Discharges from Ships Transiting Coastal Salt Waters,
W77-09333 1019 5B

Deepwater Port Act of 1974: Some International and Environmental Implications,
W77-10456 1021 6E

Pollution Prevention--Vessel and Oil Transfer Facilities.
W77-11461 1022 5G

National and International Efforts to Prevent Traumatic Vessel Source Oil Pollution,
W77-11467 1022 5G

Supertankers and the Law of the Sea,
W77-11472 1022 6E

SHOALING

Improvements for Masonboro Inlet, North Carolina; Hydraulic Model Investigation,
W77-02958 1006 8B

SHOALS

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek

Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

Canadian Pacific (Bermuda) Limited V United States (No Duty to Survey or Dredge Channel at Any Particular Time).
W77-08152 1017 6E

SHOLAPUR PUMP
A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

SHORE
Long-Period Waves on a Natural Beach,
W77-05157 1011 2L

SHORE BIRDS
Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

SHORE CRABS
Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

SHORE EROSION
Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

SHORE PROTECTION
Tri-State Conference Report: Methods for Beach and Sand Dune Protection,
W77-00193 1001 4D

Design Limits on Critical Float Emergence in a Tethered Float Breakwater,
W77-00899 1002 8C

Shoreline Erosion: Implications for Public Rights and Private Ownership,
W77-00982 1002 6E

Navigable Waters Protection Law.
W77-01009 1002 6E

State Regulation of Coastal Water Area Preserves,
W77-01072 1003 6E

Drawing the Line at the Oceanfront, the Role of Coastal Construction Set-Back Lines in Regulating Development of Florida's Coastal Zone,
W77-01097 1003 6E

Floating Breakwaters,
W77-01222 1003 8B

Use of Outer Bars of Inlets as Sources of Beach Nourishment Material,
W77-01708 1004 2L

Salt Marsh Establishment and Development,
W77-02420 1005 4D

Delaware's Changing Shoreline,
W77-02684 1006 2L

1971 Shoreline Management Act.
W77-03514 1007 6E

The Cost of Coastal Zoning.
W77-03535 1007 6E

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

Beach Fill Planning - Brunswick County, North Carolina,
W77-04471 1009 2L

Advancing to the Rear: A Strategy of Coastal Zone Management on Eroding Shorelines (Preliminary Discussion),
W77-04488 1009 2L

Lake Ontario Atlas: Land Use,
W77-04846 1010 2H

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

Coastal Sand Dunes,
W77-05405 1011 2L

Wave Energy Power Generating Breakwater,
W77-06449 1013 8B

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

Means and Method for Controlling Beach and Sandbar Erosion,
W77-08894 1018 8B

Performance Analysis of a Tethered Float Breakwater,
W77-09328 1019 8B

Estuarine Shoreline Erosion in the Albemarle-Pamlico Region of North Carolina,
W77-10036 1020 2L

Public Law Allows Mitigation of Shore Erosion Damage by Corps of Engineers,
W77-10450 1021 6E

Offshore Mineral Resource Exploitation: The State and Federal Response,
W77-10471 1021 6E

Shore Stability and Beach and Bluff Protection Methods for the Illinois Shore of Lake Michigan.
W77-10502 1021 2J

Hydrogeologic, Geologic, and Engineering Aspects of Lake Michigan Surficial Deposits,
W77-10503 1021 2J

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Maps of Shore and Nearshore Structures, Shore and Bluffline Positions, the 100-Year Anticipated Recession Line and Shore Ownership,
W77-10506 1021 2J

Engineering-Economic Analysis of Shore Protection Systems: A Benefit/Cost Model,
W77-10905 1022 2H

Erosion Defense Structures on the Puget Sound Shoreline,
W77-11038 1022 4D

Shoreline Protection in Japan,
W77-11041 1022 4D

Development of County and Local Ordinances Designed to Protect the Public Interest in Florida's Coastal Beaches,
W77-11455 1022 6E

Methodology for Designation of Adjacent Coastal States,
W77-11849 1023 6E

SHOREBIRDS
Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

SHORELANDS
The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

SHORELINE CHANGES
Delaware's Changing Shoreline,
W77-02684 1006 2L

SHORELINE CONFIGURATION
Shoreline Configuration and Shoreline Dynamics: A Mesoscale Analysis,
W77-11893 1023 2L

SHORELINE COVER
Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

Evaluation of Potential Use of Vegetation for Erosion Abatement Along the Great Lakes Shoreline,
W77-07788 1016 4D

A Universal Form for Shoreline Run-Up Spectra,
W77-10973 1022 2L

SHORELINE DYNAMICS
Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

SHORELINE FORMS
Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

SHORELINE MANAGEMENT PROGRAM
University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

SHORELINES
Inland Lake Demonstration Project,
W77-06599 1013 5G

SHORES
Coastal Erosion in Eastern Lake Michigan,
W77-00842 1002 2J

Notes on Tidal Inlets on Sandy Shores,
W77-02504 1005 2L

SHORES

Beach Nourishment Techniques; Report 1, Dredging Systems for Beach Nourishment from Offshore Sources,
W77-02965 1006 2J

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Shoreline Property and Recreation,
W77-04190 1009 2H

Terraces and Shorelines of Florida,
W77-04229 1009 7C

Title, Jus Publicum, and the Public Trust: An Historical Analysis,
W77-05038 1010 6E

Coastal Processes and Change: Legal Implications,
W77-05040 1010 6E

Shoreline Setbacks,
W77-06570 1013 6E

Beach Profile Changes: East Coast of Lake Michigan, 1970-72,
W77-08440 1017 2J

Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

Shoreline Forms and Shoreline Dynamics,
W77-10130 1021 2L

A Universal Form for Shoreline Run-Up Spectra,
W77-10973 1022 2L

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

Beach Fill Stability and Borrow Material Texture,
W77-12566 1024 2J

SHORT-TERM PLANNING

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

SHORT TERM PLANNING COSTS

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

SHOSHONE RIVER

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

SHOSTKA RIVER

Effectiveness of Wastewater Treatment at the Shostka 50th Anniversary of the USSR Chemical Plant, (In Russian),
W77-00351 1001 5D

SHOT NOISE MODELS

Shot Noise Models for the Generation of Synthetic Streamflow Data,
W77-05955 1012 2E

SHRIMP

Fishery and Biology of Metapenaeus Monoceros (Fabricius) from the Godavari Estuarine System,
W77-00424 1001 2L

Accumulation and Distribution of Selenium in Mussel and Shrimp Tissues,
W77-00873 1002 5C

Seasonal and Laboratory Variations in the Health of Grass Shrimp Palaemonetes Pugio: Dodecyl Sodium Sulfate Bioassay,
W77-00884 1002 5C

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Incidence of Shell Disease in Shrimp in the New York Bight,
W77-01502 1003 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

Optimum Effort and Rent Distribution in the Gulf of Mexico Shrimp Fishery,
W77-04014 1008 6C

Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

Accumulation and Release of Petroleum-Derived Aromatic Hydrocarbons by Four Species of Marine Animals,
W77-04045 1008 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Gas-Bubble Disease Due to Oxygen Supersaturation in Raceway-Reared California Brown Shrimp,
W77-04403 1009 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

Effects of Power-Plant Entrainment Temperatures on Oxygen Consumption Patterns of Amphipods and Grass Shrimp,
W77-05553 1011 5C

Laboratory Studies of Predation by Euphausiid Shrimps on Fish Larvae,
W77-05846 1012 2L

Osmoregulation of the Grass Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). I. Effect on Chloride and Osmotic Concentrations and Chloride and Water Exchange Kinetics,
W77-05882 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Effect of Mirex on Predator-Prey Interaction in an Experimental Estuarine Ecosystem,
W77-06281 1013 5C

Influence of Environmental Factors on Selenium Flux in Two Marine Invertebrates,
W77-06405 1013 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

Adsorption of Polychlorinated Biphenyl (Aroclor 1254) on Shrimp,
W77-06758 1014 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Effect of Salinity on the Fresh-Water Shrimp Dikerogammarus Haemobaphes (Eichwald) from the Mouth of the Dnepr,
W77-07848 1016 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Uptake of Cobalt-60 From Sea Water and from Labelled Food By the Common Shrimp Crangon Crangon (L),
W77-10407 1021 5C

Development of an Areal Management Concept for Gulf Penaeid Shrimp,
W77-11124 1022 2L

Studies on Determination of Alkyl Mercury in Fish and Shells by the Steam Distillation Method, (In Japanese),
W77-11251 1022 5A

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

The Role of Dispersion in Fuel Oil Bioassay,
W77-12643 1024 5A

SHRINK-SWELL POTENTIAL
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

SHRINKAGE
The Nature of Changes in Bulk Density with Water Contents in Cracking Clay,
W77-09937 1020 2G

SHRUB
Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

SHRUB COVER
The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

SHRUBS
Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

A Comparison of Seasonal Primary Production of Mojave Desert Shrubs During Wet and Dry Years,
W77-03138 1007 2I

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Water Exchange of Juicy Fruits of Trees and Bushes, (In Russian),
W77-09611 1020 2D

Energy Regime and Water Balance of an Alpine Dwarf Shrub Community During a Foehn Period, (In German),
W77-11089 1022 2I

The State of Natural and Introduced Trees and Shrubs After a Prolonged Drought in the Bayala Slatina Area, (In Bulgarian),
W77-12627 1024 4A

SHUNT LINE METER
Shunt Line Metering System for Irrigation Wells,
W77-01623 1004 8G

SIBERIA
Hygienic Problems of Environmental Protection in Connection with the Further Development of Siberia and the Far East, (In Russian),
W77-00349 1001 5G

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

SIDE LOOKING AIRBORNE RADAR
An Operational All-Weather Great Lakes Ice Information System,
W77-06527 1013 2C

Great Lakes All-Weather Ice Information System,
W77-06528 1013 2C

SIDE-LOOKING RADAR
Use of Side-Looking Airborne Radar to Determine Lake Depth on the Alaskan North Slope,
W77-06526 1013 2H

SIDE-SCAN SONAR
Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

SIDE WEIRS
Experimental Investigation of Flow Over Side Weirs,
W77-03317 1007 8B

SIEROZEMS
Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Experimental Equipment for Studying Soil Erosion Resistance and Some Results of Its Appliation, (In Russian),
W77-12999 1024 2G

SIERRA CLUB
Environmentalist View of 'Non-Degradation,' 'Best Practicable Technology' and 'Best Available Technology',
W77-02049 1004 6G

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

SIERRA MOUNTAINS
Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

SIERRA MOUNTAINS (NEV)
Areal Extent of Snow Estimation in the Northern Sierra Nevada Mountains Using LANDSAT-1 Imagery,
W77-08081 1016 7B

SIERRA NEVADA
Measurements of Liquid Water Content in Winter Cloud Systems Over the Sierra Nevada,
W77-00164 1001 2B

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

SIERRA NEVADA BASINS
Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

SIERRA NEVADA (CALIF)
Sierra Nevada Snow Melt from SMS-2,
W77-10675 1021 2C

SIERRA NEVADA MOUNTAINS
Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

SIERRA NEVADA REGION
Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

SIEVE ANALYSIS
Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

SIEVE RIVER
A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

SIEVES
Portable, Hand-Operated Cycle Sieve for Washing Macroinvertebrate Samples,
W77-06424 1013 7B

SILETZ SPIT (ORE)
The Causes of Erosion to Siletz Spit, Oregon,
W77-10039 1020 2L

SILICA
The Effect of the Non-Ideal Composition of Sea Water on Salinity and Density,
W77-01911 1004 2L

Kinetics of Silicon-Limited Growth in the Freshwater Diatom Asterionella Formosa,
W77-02035 1004 5C

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Silica in Water in Relation to Cooling Tower Operation,
W77-02875 1006 5D

Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

Use of Inorganic Sorbents for the Purification of Kraft Mill Effluents (Primenenie neorganicheskikh sorbentov dlya grubokoi ochistki vod sul'fat-tsellyuloznogo proizvodstva),
W77-10709 1021 5D

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

The Role of Silica and the Vernal Diatom Bloom in Controlling the Growth of Nuisance Algal Populations in Lakes,
W77-11864 1023 5C

SILICATES
Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Role of the Mineral Nutrients Contributed by the River Rhone (France) to the Organic Production of the Waters of the Gulf of Lions, (In French),
W77-04073 1008 5C

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

SILICIC ACID UPTAKE
Effects of Copper on Silicic Acid Uptake by a Marine Phytoplankton Population: Controlled Ecosystem Pollution Experiment,
W77-06621 1014 5A

SILICON
Biological Utilization and Regeneration of Silicon in Lake Michigan,
W77-11139 1022 5C

SILICONE ANTITRANSPIRANT
Augmenting Summer Streamflow by Use of a Silicone Antitranspirant,
W77-09126 1019 3B

SILICONES
Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

SILLS
Supercritical Flow Over Sills,
W77-03747 1008 8B

SILT
An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

SILT REMOVAL
Silt Removal from a Lake Bottom,
W77-03392 1007 5C

SILTATION
The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

SILTING
The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

Flood Effects on Stream Ecosystems,
W77-05949 1012 4D

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

SILTS
The Role of Silt in Eradication of Oncomelaniid Snails in Grassy Beaches, (In Chinese).
W77-02245 1005 5G

Biologically Active Substances of the Silt Deposits of Dnieper Reservoirs, (In Russian),
W77-02934 1006 5B

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Effect of Silt and Salinity on the Mortality of Meretrix Lusoria (Roeding), (In Korean),
W77-07428 1015 5C

Dredged Material as a Natural Resource--Concepts for Land Improvement and Reclamation,
W77-10983 1022 4A

SILVER
Biological Effects of Heavy Metals on Juvenile Bay Scallops, Argopecten Irradians, in Short-Term Exposures,
W77-00872 1002 5C

Silver Content of Precipitation from Seeded and Nonseeded Florida Cumuli,
W77-02485 1005 2K

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Silver Recovery from Photographic Wash Waters by Ion Exchange,
W77-06212 1013 5D

Respiratory Response of Cunners to Silver,
W77-06789 1014 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Indicators of Heavy-Metal Contamination in the Looe Estuary (Cornwall) with Particular Regard to Silver and Lead,
W77-10228 1021 5A

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Palo Alto Sees Golden Glint in Sludge.
W77-11703 1023 5D

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

SILVER BAY (MINN)
Asbestos in the Great Lakes Basin with Emphasis on Lake Superior, A Report to the International Joint Commission from the Great Lakes Research Advisory Board.
W77-00927 1002 5B

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Temperature Regime in Lake Superior at Silver Bay, Minnesota,
W77-07970 1016 1A

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

SILVER CARP
Hypophthalmichthys Molitrix (Val.)) for Increasing Fish Productivity and Decreasing the Level of Eutrophication of Dnieper Reservoirs, (In Russian),
W77-08364 1017 5C

SILVER IODIDE
Final Report, High Plains Cooperative Program Cloud Survey and Seeding Research Aircraft and Associated Data Processing,
W77-01687 1004 3B

Silver Content of Precipitation from Seeded and Nonseeded Florida Cumuli,
W77-02485 1005 2K

Final Report on the Pyramid Lake Pilot Project, 1970-1975, Volume 2, Appendices,
W77-07567 1015 3B

Collection Kernels for the Capture of Silver Iodide Nuclei by Cloud Water Drops,
W77-10308 1021 3B

Characteristics of Silver Iodide Ice Nuclei Generators Currently Used by SO.R.E.M.,
W77-10309 1021 3B

SILVER LAKE (NC)

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

SILVER LAKE (WIS)

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

SILVER SPRINGS (FLA)

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

SILVERSIDES

Effect of Parental Temperature Experience on Thermal Tolerance of Eggs of Menidia Audens,
W77-04551 1009 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

SIMAZINE

Herbicide Movement with Water and Effects of Contaminant Levels on Non-Target Organisms,
W77-04104 1009 5B

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

SIMILARITIES

Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

SIMILITUDE

Similitude in Coastal Engineering,
W77-00380 1001 8B

Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

SIMPSON LAGOON (ALAS)

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

Beach Morphology and Sedimentology of Simpson Lagoon,
W77-10896 1022 2L

SIMULATED RAINFALL

Statistical Models for Precipitation,
W77-00537 1002 2B

Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

Effects of Antecedent Soil Moisture on Storm Hydrographs,
W77-05603 1012 2A

Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

A Simulation of Smooth-Variable Intensity Rainfall Patterns,
W77-09337 1019 2B

Stochastic Models for Precipitation,
W77-10180 1021 2B

Characteristics of Rainfall Cell Patterns in the Southeast Coastal Plain Areas of the USA, and a Computer Simulation Model of Thunderstorm Rainfall,
W77-10435 1021 2B

Use of a Versatile Experimental System for Soil Erosion Studies,
W77-11237 1022 2J

Effects of Simulated Rain Acidified With Sulfuric Acid on Host-Parasite Interactions,
W77-11542 1023 5C

Convective Storm Field Simulation for Distributed Catchment Models,
W77-12092 1023 2B

Effects of Soil, Cover Crop, and Nutrient Source on Movement of Soil, Water, and Nitrogen Under Simulated Rain-Slope Conditions,
W77-12309 1024 2B

SIMULATED THERMAL EFFLUENT

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

SIMULATION

Future Direction of Urban Water Models,
W77-01071 1003 5G

Low Flow Modeling in Small Steep Watersheds,
W77-03316 1007 4D

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

SIMULATION ANALYSIS

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

A Method for Selecting and Evaluating Simulation Games as Educational Tools for Water Resources Planning,
W77-00148 1001 6A

Balancing Environmental Quality, Energy Use, and Growth: Difficult Decisions,
W77-00175 1001 6G

Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

One-Dimensional Simulation of Aquifer System Compaction near Pixley, California: 2. Stress-Dependent Parameters,
W77-00490 1001 2F

Role of Partial Gradient Estimation by Simulation in Water Resource Plan Formulation, Part I,
W77-00533 1002 6A

A Search Technique for Formulating Improved Water Resources Configurations, Part II,
W77-00534 1002 6A

Water Temperature Simulation,
W77-00616 1002 5B

The Nonpoint Source Pollutant Loading (NPS) Model,
W77-00617 1002 5B

An Aqueous Environmental Simulation Model for Mid-South Lakes and Reservoirs,
W77-00675 1002 5C

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

A Predator-Prey Model for Discrete-Time Commercial Fisheries,
W77-01171 1003 6A

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W77-01424 1003 2D

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

An Analysis of the Effects of Parameter Uncertainty in Deterministic Hydrologic Models,
W77-02125 1005 2A

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

Assessing Synthetic and Admixed Materials for Lining Landfills,
W77-02410 1005 5E

Mathematical Modeling of Phytoplankton in Lake Ontario. Part 2. Simulations Using Lake 1 Model,
W77-02443 1005 5C

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

Useful Modeling Concepts for the FCD Water System,
W77-03524 1007 6A

Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

Time of Ponding--Comparison of Results of the Parlange Solution with the Smith and Mein-Larson Models,
W77-03855 1008 2G

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Optimization of Crop Irrigation Strategy Under a Stochastic Weather Regime: A Simulation Study,
W77-03941 1008 3F

The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Cleaner: The Lake George Model,
W77-04495 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

The Delaware Estuary,
W77-04497 1009 6G

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

Phytoplankton Models and Eutrophication Problems,
W77-04499 1009 5C

Mathematical Models,
W77-04523 1009 6A

The North Platte River Basin Economic Simulation Model (A Technical Report and Supplement to the Technical Report),
W77-04601 1010 6B

Why Simulation,
W77-04725 1010 2E

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Rainfall-Runoff Models,
W77-05010 1010 2A

Estuarial Models,
W77-05015 1010 2L

Ecologic Models,
W77-05016 1010 5B

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-05187 1011 6D

Model to Evaluate Feedlot Runoff Control Systems,
W77-05238 1011 5G

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

A Practical Methodology for River Quality Simulation Through the Stage-Wise Generation of Transition Function,
W77-05257 1011 5G

Some Problems in the Simulation of Very Large Hydrodynamic Systems,
W77-05258 1011 2L

Simulation of Profile Water Storage as Related to Soil Hydraulic Properties,
W77-05349 1011 2G

Dispersion Processes in Circular Open-Channel Flows,
W77-05601 1012 8B

Computer Simulation of Snowmelt,
W77-05735 1012 2C

Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

Electric Analog Simulation of the Aquifers Along the South Coast of Puerto Rico,
W77-05746 1012 2F

Mathematical Models for the Simulation of Cyclonic Storm Sequences and Precipitation Fields,
W77-05795 1012 2B

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

The Simulation of Whole Core Permeameter Flow Geometry,
W77-05933 1012 2F

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

Extended Period Simulation of Water Systems--Part B,
W77-05996 1012 4A

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

Bay Springs Lake Water Quality Study,
W77-06087 1012 5B

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

Mathematical Models in Hydrology.
W77-06708 1014 2A

On Large-Scale Simulation of Groundwater Flow Systems,
W77-06713 1014 4B

Optimal Operations of Reservoirs in the Harz Mountains,
W77-06715 1014 4A

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Optimal Design and Operation of Reservoir Systems,
W77-06721 1014 4A

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

Modele Mathematique de Simulation du Systeme des Ressources Hydrauliques Superficielles du Llobregat,
W77-06727 1014 4A

Hybrid Computer Analysis of a Combined Surface Water--Groundwater System,
W77-06729 1014 4B

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

Surface Water Network Design by Regression Analysis Simulation,
W77-06963 1014 2E

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Models for Simulation of Eutrophication of Lakes for Lake Constance (Bodensee-Obersee): I. Data from Lake Constance used in Simulation Models, (In German),
W77-07579 1015 5C

Problems Encountered in Synthetic River Flow Generation Procedures,
W77-07657 1016 2A

Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

Model of a Lake Reservoir,
W77-07687 1016 4A

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

Representative and Experimental Basins - Where Next,
W77-07781 1016 2A

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Study of the Rio Grande, Bolivia Highlights Some Basic Questions About Simulation,
W77-07945 1016 2A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

Optimal Operation of Water Resources Systems--1,
W77-08047 1016 4A

Planning of Systems for Regional Development in Water Resources,
W77-08049 1016 6A

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

Regional Simulation of Streamflow Data,
W77-08298 1017 2A

A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

Simulation of Pollutant Movement in Groundwater Aquifers,
W77-08807 1018 5B

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

RIBAM, A Generalized Model for River Basin Water Quality Management Planning,
W77-09158 1019 5G

Comparison of Eutrophication Models,
W77-09159 1019 5C

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

Urbanization and Flooding - An Example,
W77-09161 1019 4C

Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

Stream Modeling and Waste Load Allocation,
W77-09169 1019 5B

Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

Joint Use of SWMM and Storm Models for Planning Urban Sewer Systems,
W77-09172 1019 5D

Simulation of Agricultural Runoff,
W77-09173 1019 5B

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

Modeling the Hydrodynamic Effects of Large Man-Made Modification to Lakes,
W77-09177 1019 5B

An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

Dispersion Model for an Instantaneous Source of Pollution in Natural Streams and Its Applicability to the Big Blue River (Nebraska),
W77-09183 1019 5B

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

Modifications to Qual - II to Evaluate Wastewater Storage,
W77-09186 1019 5D

Water Pollution Modeling in the Detroit Metropolitan Area,
W77-09187 1019 5B

Generalized Method for Evaluating Urban Storm Water Quality Management Storage/Treatment Alternatives,
W77-09188 1019 5D

Modeling Hydrologic Land-Use Interactions in Florida,
W77-09189 1019 5B

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

Computer Simulation of Long-Term Secondary Impacts of Water and Wastewater Projects,
W77-09195 1019 5B

Environmental, Fiscal and Socio-Economic Impact of Land Use Policies: Toward an Interactive Analysis,
W77-09196 1019 6B

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

Simulation and Mathematical Modeling of Water Supply Systems - State-of-the-Art,
W77-09200 1019 4A

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

The Operational Water Quantity Model,
W77-09204 1019 4A

SWAN, A Sewer Analysis and Modeling System,
W77-09206 1019 5D

Water Supply Systems Planning, Management and Communication Through an Interactive River Basin Simulation Model,
W77-09212 1019 6B

Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

Computer Simulation of Phosphorus Movement Through Soils,
W77-09970 1020 5B

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Simulating Overland Flow in Border Irrigation,
W77-10170 1021 3F

National and Interregional Models of Land Use, Water Allocation, Soil Loss Control, and Agricultural Policy,
W77-10171 1021 6A

Stochastic Models for Precipitation,
W77-10180 1021 2B

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

The Application of Remote Sensing to the Development and Formulation of Hydrologic Planning Models,
W77-10296 1021 2E

A Stochastic Model for the Simulation of the Temperature of a Watercourse,
W77-10300 1021 2A

Probabilistic Models for Multiple and Synthetic Hydrologic Variables,
W77-10301 1021 2A

Application of Mathematical Models in Hydrology and Water Resources Systems.
W77-10419 1021 2A

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Stochastic Approaches to Water Resources, Volumes I and II,
W77-10439 1021 6A

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

A Recursive Approach to Time-Series Analysis for Multivariable Systems,
W77-10807 1022 5B

Designing Simulation Models for Optimization Studies,
W77-10808 1022 6A

The Arno River Model Problems, Methodologies and Techniques,
W77-10809 1022 2A

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

Dynamic Models and Computer Simulation of Wastewater Treatment Systems,
W77-10814 1022 5D

Simulation Aided Modeling of the Dynamic Behavior for some Elements of a Surface Water Treatment Plant,
W77-10815 1022 5F

Simulation and Optimisation of a Biological Water Treatment Plant,
W77-10816 1022 5D

The Influence of the Quality of Water on Ecological Systems,
W77-10818 1022 5C

Systems Engineering Approach to Agricultural and Rural Development Systems,
W77-10819 1022 3F

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

A Catchment Simulation Model Developed for Urban and Urbanising Catchments with Particular Reference to the Use of Automatic Optimization Techniques,
W77-10823 1022 2E

Integrated Surveys of Land and Water Resources for Development Purposes,
W77-10824 1022 6A

Key Notes and Impacts of Simulation and Modeling Techniques for Decision Making Water Resources Projects in Developing Areas,
W77-10825 1022 6A

The Development of Modelling and Simulation Techniques Applied to a Computer-Based Telecontrol Water Supply System,
W77-10826 1022 4A

Static and Dynamic Simulation of Water Transport in a Complex Network System,
W77-10828 1022 5B

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Water Resource Modeling.
W77-10840 1022 6A

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

Extended Period Simulation of Water Systems--Part A,
W77-10848 1022 4A

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

Some Remarks on Computer Modeling of Coastal Flows,
W77-11781 1023 2L

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

Applied Principles of Catchment Simulation,
W77-12106 1023 2A

Simulation Model for Nutrient Uptake from Soil by a Growing Plant Root System,
W77-12119 1023 2G

A Physically-Based Model to Predict Runoff Under Variable Rain Intensity,
W77-12182 1023 4A

Theoretical Drawdown Due to Simulated Pumpage from the Ohio River Alluvial Aquifer Near Siloam, Kentucky,
W77-12379 1024 4B

Performance of Storm Drainage Simulation Models,
W77-12411 1024 5D

Water Quality and Return Flow Study of the Oahe Unit, South Dakota,
W77-12750 1024 5G

Detailed Return Flow Salinity and Nutrient Simulation Model,
W77-12757 1024 5G

SIMULATON ANALYSIS

Comparison of Simulated and Measured Nitrogen Accumulation in Burley Tobacco,
W77-12122 1023 3F

SIMULTANEOUS EQUATION ECONOMETRIC MODEL

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

SIMULTANEOUS FIRST ORDER KINETICS

The Mathematical Description of the BOD Reaction in Stream Water,
W77-08493 1017 5B

SINAI

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

SINGLE STAGE SYSTEM

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

SINKAGE

Sinkage and Resistance for Ships in Channels,
W77-08873 1018 8B

SINKING CREEK (TN)

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

SINKS

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

SINUOSITY

Meander Sinuosity and Direction Variance,
W77-06521 1013 2E

SIPHONING (BOTTOM WATER)

Lake Restoration by Bottom Water Siphoning, (In German),
W77-07577 1015 5G

SIPHONS

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Lake Restoration by Bottom Water Siphoning (In German),
W77-06689 1014 5G

The Effects of High Vacuum on Fish,
W77-07421 1015 5C

SIROTHERM PROCESS

New Directions in Ion Exchange,
W77-08719 1018 5D

SIROTHERM RESIN

Desalting in Australia: The Development of a New Process for Brackish Water,
W77-11117 1022 3A

SITE DAMAGE

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

SITE DEVELOPMENT LAGOONS
Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

SITE PREPARATION
Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

SITE PRODUCTIVITY
Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

SITES
Evaluation of Recreational Sites,
W77-00387 1001 6B

Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

Water Power Companies--Eminent Domain,
W77-01117 1003 6E

Survey of the Critical Natural, Historic and Recreational Areas in Kentucky.
W77-02063 1004 6B

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

A Guide for the Geologic and Hydrologic Evaluation of Small Lakes Sites in Missouri,
W77-05260 1011 8D

Thermal Effluent in Coastal Rivers: A Contribution to the Location of Power Plants,
W77-05587 1011 5C

Index of Surface-Water Stations in Texas, October 1976,
W77-05760 1012 7C

Power Plant Site Evaluation: The Case of the Sharon Plant in Israel,
W77-07546 1015 6G

Pumped Storage Potential of the Hells Canyon Area,
W77-08196 1017 8C

An Earthquake Risk Model That Incorporates Local Near Surface Site Conditions,
W77-08348 1017 8E

Energy Plant Siting Legislation,
W77-09050 1018 6E

Siting of Major Energy Facilities.
W77-09459 1019 6G

SIX MILE CREEK (SD)
Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

SIZE
Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

SK. AREA DEVELOPMENT
Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

SKAHA LAKE (BRITISH COLUMBIA)
Presenting Trends in Lake Eutrophication,
W77-06693 1014 5C

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

SKEENA RIVER (BRITISH COLUMBIA)
New Techniques for Policy Evaluation in Ecological Systems: Methodology for a Case Study of Pacific Salmon Fisheries,
W77-00702 1002 6B

SKELETAL DEFORMITY
Changes in the Mechanical Strength of the Bone and in the Collagen Solubility of the Bone and the Skin of Carp Caused by beta-Aminopropionitrile and D-Penicillamine,
W77-11271 1022 5C

SKELETON CREEK (OKLA)
Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

SKELETONEMA
Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton,
W77-10241 1021 5C

SKELETONEMA COSTATUM
Fundamental Studies on the Influence of Oil Poilution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Filament Formation in the Diatom Skeletonema Costatum,
W77-09510 1019 5C

SKEW ESTIMATES
Apparent Regional Skew,
W77-07484 1015 2E

SKEWED DISTRIBUTIONS
An Operational Approach to Preserving Skew in Hydrologic Models of Long-Term Persistence,
W77-09127 1019 2A

SKEWNESS (IRRIGATION)
Sprinkler Uniformity Measures and Skewness,
W77-12505 1024 3F

SKIMMER FENCES
Skimmer Fence,
W77-08893 1018 5G

SKIMMERS
Floating Skimmer for Cleaning the Surface of a Body of Liquid, Method and Apparatus,
W77-01228 1003 5G

Skimmer Apparatus for Sewage Settling Tanks and the Like,
W77-08088 1016 5G

SKIMMING
Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Floating Skimmer for Cleaning the Surface of a Body of Liquid, Method and Apparatus,
W77-01228 1003 5G

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

A Zero-Relative-Velocity Belt Skimmer,
W77-03899 1008 5C

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

Fast Current Oil Response System - Stage I, SVROS Development,
W77-03920 1008 5G

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Skimmer Apparatus for Sewage Settling Tanks and the Like,
W77-08088 1016 5G

Skimmer Fence,
W77-08893 1018 5G

At Sea Testing of a High Sea Oil Recovery System,
W77-09237 1019 5G

SKIP FURROW IRRIGATION
Skip Furrow Irrigation for Cotton,
W77-04791 1010 3F

SKUNK CREEK (AZ)
Flood Plain Information: Maricopa County, Arizona, Volume III, Skunk Creek Report.
W77-04210 1009 4A

SKUNK RIVER (IA)
Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

SKYLAB
Remote Sensing of Soil Moisture by a 21-CM Passive Radiometer,
W77-02480 1005 2G

SKYLAB

Skylab Imagery: Application to Reservoir Management in New England,
W77-02499 1005 4A

SKYLAB Study of Water Quality,
W77-02505 1005 5A

A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

SKYLAB DATA

Synopsis of Current Satellite Snow Mapping Techniques, with Emphasis on the Application of Near-Infrared Data,
W77-10676 1021 2C

Snowcover Mapping by Machine Processing of SKYLAB and LANDSAT MSS Data,
W77-10681 1021 2C

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

SKYWATER

The 1974 Skywater Workshop,
W77-05976 1012 3B

SLAG

Effects of Slag on Aquatic Life,
W77-00625 1002 5C

SLAKING

Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

SLATE CREEK (KS)

Flood Plain Information: Sand and Slate Creeks, Newton, Kansas.
W77-05300 1011 4A

SLEEVE VALVES

Evolution of Multijet Sleeve Valve,
W77-10117 1021 8C

SLICKGONE LT2

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

SLIME

Pollution of Interstate Waters of the Lower Columbia River Bonneville Dam to Cathlamet, Washington.
W77-03385 1007 5B

The Influence of Carbon-Nitrogen Ratio on the Chlorination of Microbial Aggregates,
W77-03414 1007 5D

Investigation of Oxygen Transfer to Slime as a Surface Reaction,
W77-03476 1007 5B

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Phosphorus Uptake by Biological Slimes,
W77-06163 1013 5D

Composition and Method of Inhibiting Growth of Slime in Water,
W77-08027 1016 5G

SLOP TANKS (OIL)

Study on Treatment of Tanker Discharged Oily Water with Improved Type Slop Tank (Kairyogata suropu tanku ni yoru tanka haisui shori no kankyu),
W77-00750 1002 5G

SLOPE PROTECTION

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Restoration and Protection of Degraded Slopes,
W77-05948 1012 4D

Chemical and Vegetative Stabilization of Soils,
W77-08512 1017 8D

Protection of Slopes Against Rainfall Erosion,
W77-12561 1024 4D

SLOPE STABILITY

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

Drawdown Analysis of Slopes by Numerical Method,
W77-10776 1021 8D

SLOPE STABILIZATION

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

SLOPE WATER

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

SLOPES

Link Slope Distribution in Channel Networks,
W77-00370 1001 2A

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

Flow in a Soil Layer Underlined by an Impermeable Membrane,
W77-05361 1011 2G

Hillslope Form and Climate,
W77-06314 1013 2J

Water Flux in Soil and Subsoil on a Steep Forested Slope,
W77-07147 1015 2G

Ice and Ocean Tilt Measurements in the Beaufort Sea,
W77-09117 1019 2C

Water Table Lowering Between Two Drainage Ditches in Naturally Layered Soils on a Slope, (In German),
W77-09448 1019 4A

Effect of Slope on the Threshold of Motion and Its Application to Orientation of Wind Ripples,
W77-09955 1020 2J

Simulating Overland Flow on Hillslopes with a Kinematic Cascade,
W77-12108 1023 2A

Runoff and Soil Erosion on Slopes Depending on Cultivated Crops, (In Russian),
W77-12587 1024 2J

SLOTTED BULKHEAD GATES

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

SLUDGE

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

FDA's Overview of the Potential Health Hazards Associated with the Land Application of Municipal Wastewater Sludges,
W77-00034 1001 5E

Activated Carbon Odor Control System,
W77-00056 1001 5D

The Effect of Digested Sludge on Soil Biological Activity,
W77-00612 1002 5D

It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

Suspended Sludge Scraper for Arcuate Sedimentation Zone,
W77-02335 1005 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Crop Response to Tank Truck Application of Liquid Sludge,
W77-02390 1005 5C

Solid Waste Degradation Due to Shredding and Sludge Addition,
W77-02412 1005 5E

Anaerobic Digestion of Lime Sewage Sludge,
W77-02750 1006 5D

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

Continuous Bowl-Type Centrifuges for the Clarification and Dehydration of Sludges from the Paper Industry (Centrifugeuses Continues A Bol Plein Pour Clarification et Deshydration des Boues Dans L'Industrie Papetiere).
W77-03613 1008 5D

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Preparation of Fertilizers from Effluent Sludges of Fermentation Plants (Poluchenie

udobrenii iz shlamovykh otkhodov gidroliznogo proizvodstva),
W77-03810 1008 5E

Possible uses for Fibrous Sludges from the Pulp and Paper Industry,
W77-03817 1008 5E

Sludge Settling Basin,
W77-04669 1010 5D

Is There a 'Sludge Market',
W77-04727 1010 5E

Boise Measures Sludge Ultrasonically,
W77-04825 1010 5D

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

Chlorella Cultivation in Sludge Extracts,
W77-06437 1013 5C

Forms of Sulfur in Sewage Sludge,
W77-07044 1014 5A

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

Wastewater and Sludge Control in the Canadian Metal Finishing Industry, Segment Including Chemical, Electrolytic Treatment; Electrochemical Machining and Polishing; Cyanide Hardening,
W77-07333 1015 5D

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

Workshop Proceedings -- Research Needs Related to Recycling Urban Wastewater on Land,
W77-07607 1016 5D

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

Elemental Composition of Sludge-Fertilized Chrysanthemums,
W77-09868 1020 5E

How Sludge Characteristics Affect Incinerator Design,
W77-09869 1020 5E

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Ocean Dumping,
W77-11469 1022 5G

Land Disposal of Sewage Sludge, Volume IV (April , 1975 - March, 1976),
W77-12791 1024 5E

SLUDGE BULKING

Controlling Sludge Bulking,
W77-08636 1018 5D

Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

SLUDGE BULKING CONTROL

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

SLUDGE CHARACTERISTICS

Characterization and Dewaterability of Water Treatment Plant Residues,
W77-03130 1007 5D

SLUDGE COMPOST

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

SLUDGE DIGESTION

A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

Utilization of Methane from Sludge Digestion,
W77-00036 1001 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

Solving an Interim Problem of Treatment Plant Overload,
W77-04701 1010 5D

Sludge Treatment Specialists.
W77-06132 1013 5D

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Conditioning and Land Application of Aerobically Digested Sludge,
W77-07058 1014 5D

Elimination of Anaerobic Digester Supernatant,
W77-07059 1014 5D

Autothermal Aerobic Digestion,
W77-07898 1016 5D

Survey of Anaerobic Digestion Supernatant Treatment Alternatives,
W77-07903 1016 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Aerobic Digestion of Waste Activated Sludge at Low Temperatures,
W77-08527 1017 5D

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Digested Sludge: Delineation and Modeling for Ocean Disposal,
W77-09596 1019 5E

Effects of Anaerobically Digested Sewage Sludge on Organic Matter in Soil and Soil Water,
W77-09598 1019 5C

A New Rapid Digestion Process for Sewage Sludge Utilization (Einneues Schnellrotte-Verfahren als Beitrag zur weitergehenden Klaerschlamm-Verwertung),
W77-09887 1020 5D

Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Optimizing Gas Production, Methane Content, and Buffer Capacity in Digester Operation,
W77-10654 1021 5D

Sludge Digestion and Disposal.
W77-11496 1022 5E

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

The Waste Water Treatment Bergstrasse - Possibilities and Selection of the Sludge Treatment (Die Klaeranlage Bergstrasse - Moeglichkeiten und Wahl des Schlammbehandlungs-systems),
W77-11711 1023 5D

Anaerobic Digestion Process,
W77-12954 1024 5D

Anaerobic Waste Treatment Facility,
W77-12956 1024 5D

SLUDGE DISPOSAL

Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

Regional Wastewater Solids Management Program Los Angeles-Orange County Metropolitan Area,
W77-00011 1001 5E

Computer Evaluation of Sludge Handling and Disposal Costs,
W77-00012 1001 5D

Urban Sludge Disposal or Utilization Alternatives, Socio-Economic Factors,
W77-00013 1001 5E

Sludge Management Alternatives for Coastal Cities,
W77-00014 1001 5E

Sludge Disposal Alternatives for Boston,
W77-00016 1001 5E

Alternatives for Disposal for the Metropolitan Denver Sewage Disposal District No. 1,
W77-00017 1001 5E

Updating the 1974 Pittsburgh Conference,
W77-00019 1001 5D

Summary of the ASCE Seminar on Sludge Disposal,
W77-00020 1001 5D

The Past, Present, and Future Prospects of Burning Municipal Sewage Sludge Along with Mixed Municipal Refuse,
W77-00021 1001 5E

Pyrolysis of Sewage Sludge,
W77-00024 1001 5E

Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

A Sludge Policy for the 70's,
W77-00026 1001 5E

Ecological Impact of the Disposal of Municipal Sludge Onto Land,
W77-00027 1001 5E

Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

Environmental Effects of Sludge Disposal in Sanitary Landfills,
W77-00030 1001 5C

Impact of Land Disposal of Sludges on Groundwater,
W77-00031 1001 5B

Potential Health Impacts of Sludge Disposal on the Land,
W77-00033 1001 5C

Wastewater Sludge as a Fertilizer Substitute,
W77-00046 1001 5E

Recent Advances in Sludge Treatment and Disposal,
W77-00064 1001 5D

Method for Improving Sewage Sludge Incineration,
W77-00576 1002 5E

Demonstration of a Planning Perspective for Waste Water Sludge Disposition.
W77-00631 1002 5E

It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

Sludge,
W77-01085 1003 5G

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Considerations for Land Disposal of Paper and Pulp Mill Sludge,
W77-01654 1004 5E

Disposal of Wastewater Residuals, (Volumes 1 and 2).
W77-01984 1004 5E

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Crop Response to Tank Truck Application of Liquid Sludge,
W77-02390 1005 5C

Environmental Impacts of Land Application of Sludge,
W77-02391 1005 5D

Ocean Dumping Phase-Out in EPA Region II,
W77-02393 1005 5E

An Experimental High-Ash Paper Mill Sludge Landfill: Second Annual Report,
W77-02555 1005 5E

An Experimental High-Ash Paper Mill Sludge Landfill: First Annual Report,
W77-02556 1005 5E

C(rown) Z(ellerbach)'s Solids Waste Problems at Wauna are Reduced by Composting,
W77-02572 1005 5E

Study of Dewatering of Cellulosic Sludge from the Viscose Fiber Industry (Issledovanie po obezvozhivaniyu tsellyuloznogo shlama predpriyatii viskoznogo volokna),
W77-02575 1005 5D

Handling Discharges from Waste Oil Processing,
W77-02604 1006 5D

Computer-Aided Planning of Regional Sludge Disposal Systems, User's Manual,
W77-02745 1006 5D

Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

Sludge Collector and Light Liquid Separator-From Sewage with Two Tanks in Single Housing and Cover.
W77-03405 1007 5D

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

Sludge Incineration.
W77-03419 1007 5E

Use of Sludge Left After Waste Water Decantation as a Fertilizer or Soil Conditioner (Les Boues de Decantation d Eau Residuaires Utilisees Comme Fertilisant ou Comme Conditionneur de Sols),
W77-03421 1007 5D

Sludge - Where Will We Put It,
W77-03424 1007 5E

Fluidized Waste Incinerator and Method,
W77-03489 1007 5D

Wastewater's Future is Cloudy,
W77-03577 1007 5D

Effect of Residues from Effluent Treatment During Solid Board Manufacture (Auswirkung von Rueckstanden aus der Abwasserreinigung bei der Vollpappenerzeugung),
W77-03819 1008 5D

Modern Technique for Sediment Removal (Modern teknik for sedimentupptagning),
W77-03822 1008 5D

Wet Oxidation of Clarification Sludge and Pulp Effluent by the Zimpro Process (Nassoxydation von Klaerschlamm und Zellstoffablauge mit dem Zimpro-Verfahren),
W77-03823 1008 5D

Method of Disposing Sludges Containing Soluble Toxic Materials,
W77-03866 1008 5E

Settled Sludge Removal.
W77-04673 1010 5D

Keeping up with Sludge at WPCF,
W77-04692 1010 5D

Experiences with the Thickening and Burning of Biological and Nonbiological Sludges (Erfahrungen bei der Entwaesserung und Verbrennung von biologischen und nichtbiologischen Schlaemmen),
W77-04814 1010 5E

Residual Waste: Model State Legislation,
W77-04905 1010 5G

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

Ocean Dumping--Part 2.
W77-05037 1010 5E

Treatment of Effluent from Secondary Fibre Mills,
W77-05706 1012 5D

The Ultimate Disposal of Sludge,
W77-06114 1013 5D

New Refuse Incinerator to Burn Atomized Sludge,
W77-06125 1013 5E

Sludge Treatment Specialists.
W77-06132 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

New York City Area Examines Alternative to Ocean Dumping.
W77-06143 1013 5E

Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Effects of Municipal Compost and Nitrogen Fertilizer on Selected Soils and Plants,
W77-06146 1013 5C

Simultaneous Incineration of Refuse and Sewage Sludge: The Principles and Application at Bowhouse, Alloa, Scotland,
W77-06147 1013 5E

Sludge in a State of Purity,
W77-06154 1013 5D

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

Effects of Trace Elements on Urease Activity in Soils,
W77-06165 1013 5C

Molybdenum Hazard in Land Disposal of Sewage Sludge,
W77-06180 1013 5C

Subsurface Injection-How Much Does It Cost,
W77-07011 1014 5E

Acid Solubilization of Sewage Sludge and Ash Constituents for Possible Recovery,
W77-07017 1014 5E

Fluosolids Incinerator Commissioned at Esher,
W77-07018 1014 5E

Persistence of Poliovirus 1 in Soil and on Vegetables Grown in Soil Previously Flooded with Inoculated Sewage Sludge or Effluent,
W77-07050 1014 5C

Agricultural Disposal of Aerobic Wastewater Sludges in an Urban County,
W77-07057 1014 5D

Conditioning and Land Application of Aerobically Digested Sludge,
W77-07058 1014 5D

Trends in Sludge Treatment and Disposal Practices in the United States,
W77-07083 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Estimating Costs of Waste Water Sludge Disposal,
W77-07861 1016 5E

Nitrification in Soil Treated with Domestic and Industrial Sewage Sluge,
W77-07862 1016 5E

Save Sludge Handling Costs by Level Control,
W77-07868 1016 5D

Application of Sewage Sludge to Cropland.
W77-07869 1016 5E

Organic Matter and Heavy Metal Uptake,
W77-07870 1016 5E

'Hydig'-One Example of Controlled Sludge Use,
W77-07871 1016 5E

Composting--An Approach to Using Sewage Waste,
W77-07876 1016 5E

Sewage Sludge Disposal: A Sticky Problem with No Fail-Safe Answer,
W77-07948 1016 5E

Persistence of Mycobacterium Bovis BCG in Soil and on Vegetables Spray-Irrigated with Sewage Effluent and Sludge,
W77-08525 1017 5C

S. W.'s Sludge Incineration scheme,
W77-08570 1017 5E

Fluid Bed for Sewage Sludge Burn Up,
W77-08582 1017 5E

Trenching Sludge May be Safe.
W77-08594 1017 5E

Sludge Disposal in the North West,
W77-08628 1018 5E

Sludge Incineration,
W77-08717 1018 5E

Soil Testing for Sludge Disposal.
W77-08728 1018 5E

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Pitman v Washington Suburban Sanitary Commission (Environmental Effects Reports Only Required for State Actions).
W77-09573 1019 6E

Package Aeration Plants.
W77-09588 1019 5D

Digested Sludge: Delineation and Modeling for Ocean Disposal,
W77-09596 1019 5E

Effects of Anaerobically Digested Sewage Sludge on Organic Matter in Soil and Soil Water,
W77-09598 1019 5C

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Continuous Composting of Organic W W Waste--by Automatic Control of Fermentation Temperature and Humidity of Product and Control of Carbon Dioxide or Oxygen in Waste Gases,
W77-09831 1020 5E

Co-Burning of Sludge and Refuse with Waste Heat Recovery,
W77-09857 1020 5E

Growth of Tulips Treated with Sludge Containing Dewatering Chemicals,
W77-09867 1020 5E

Land Application of Municipal Sludge,
W77-09882 1020 5E

A New Rapid Digestion Process for Sewage Sludge Utilization (Einneues Schnellrotte-Verfahren als Beitrag zur weitergehenden Klaerschlamm-Verwertung),
W77-09887 1020 5D

Options for Sludge--To Land, Sea or Fire,
W77-09918 1020 5E

Mass Balance Monitoring of Land Application Sites for Wastewater Residuals,
W77-10326 1021 5B

Operating Experiences on Petrochemicals Waste Water Treatment Plant of Gujarat Aromatics Project at Jawaharnagar,
W77-10351 1021 5D

$885 Million-Plus Plan is Recommended for Boston Area,
W77-10578 1021 5D

Maryland Research Finding Guidelines for Sludge Use.
W77-10580 1021 5E

Sludge Disposal Strategy: Processes and Costs,
W77-10609 1021 5E

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Energy Usage and Recovery in Sludge Disposal Part 1,
W77-10632 1021 5D

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

A Methodology for Assessing Land Application of Sludges and Wastewaters,
W77-10635 1021 5E

Sludge Treatment, Utilization, and Disposal,
W77-10647 1021 5D

Sludge Digestion and Disposal.
W77-11496 1022 5E

Palo Alto Sees Golden Glint in Sludge.
W77-11703 1023 5D

Sludge Handling.
W77-11710 1023 5E

Hayle's Long Wait for its Sewage Scheme is Over,
W77-11716 1023 5D

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

Standing Committee on the Disposal of Sewage Sludge.
W77-11740 1023 5E

Current Sludge Research at the WRC,
W77-11741 1023 5E

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Is There a Potential for Parasitic Disease Transmission from Land Application of Sewage Effluents and Sludges,
W77-11750 1023 5E

Tanker Sludge Removal and Disposal,
W77-11911 1023 5E

Residual Waste Best Management Practices: A Water Planner's Guide to Land Disposal,
W77-12076 1023 5E

A Review of Techniques for Incineration of Sewage Sludge with Solid Wastes,
W77-12081 1023 5D

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

More Disposal Operations Mixing Sewage Sludge and Municipal Solid Wastes,
W77-12418 1024 5E

Co-Disposal for Solid Wastes and Sewage Sludge,
W77-12426 1024 5E

Single-Hearth Screenings Incinerator.
W77-12440 1024 5E

Pollution Control by Incineration,
W77-12441 1024 5E

Deceptive Horse Barn.
W77-12443 1024 5D

Effect of Dried Anaerobically Digested Sewage Sludge on Yield and Element Accumulation in Tall Fescue and Alfalfa,
W77-12444 1024 5E

Conveyor System Moves Sewage Quickly, Prevents Spillage.
W77-12447 1024 8G

Energy Uses and Recovery in Sludge Disposal, Part 2,
W77-12498 1024 5E

Process for Sludge Disposal and Circular Landfill System,
W77-12920 1024 5E

Disposal Method and Use of Sewage Sludge,
W77-12941 1024 5E

SLUDGE DRYING BEDS
Filters and Sludge Drying Beds,
W77-08586 1017 5D

SLUDGE FILTERING
Device for Extracting Liquid from Sludge,
W77-04968 1010 5D

SLUDGE INCINERATOR ASH
Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

SLUDGE PURGING CONTROL
Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Over-

purge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

SLUDGE QUALITY INDEX
Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

SLUDGE REMOVAL
Settled Sludge Removal.
W77-04673 1010 5D

SLUDGE SEPARATORS
Sludge Separator.
W77-06998 1014 5D

SLUDGE TREATMENT
Institutional Problems of the Small Treatment Plant,
W77-00010 1001 5D

Regional Wastewater Solids Management Program Los Angeles-Orange County Metropolitan Area,
W77-00011 1001 5E

Computer Evaluation of Sludge Handling and Disposal Costs,
W77-00012 1001 5D

Energy Conservation Practices in Municipal Sludge Management,
W77-00018 1001 5D

Updating the 1974 Pittsburgh Conference,
W77-00019 1001 5D

Summary of the ASCE Seminar on Sludge Disposal,
W77-00020 1001 5D

High Energy Radiation in Sludge Treatment - Status and Prospects,
W77-00022 1001 5D

Management of Municipal Wastewater Treatment Residuals,
W77-00023 1001 5D

Sludge Drying Beds are Practical, Part 1,
W77-00039 1001 5D

Wastes Find Fertile Field as Low-Cost Plant Nutrients,
W77-00050 1001 5E

Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

Recent Advances in Sludge Treatment and Disposal,
W77-00064 1001 5D

New Method of Sewage Sludge Decontamination, (In Russian),
W77-00352 1001 5D

Emulsion Polymerization of Cationic Monomers,
W77-00568 1002 5D

Method for Improving Sewage Sludge Incineration,
W77-00576 1002 5E

Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Effluent Treatment in the Paint and Surface Coating Manufacturing Industry,
W77-00764 1002 5D

Dissolved Air (Pressure) Flotation - An Evaluation of Inter-Relationships Between Process Variables and their Optimisation for Design,
W77-01367 1003 5D

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Laboratory Research Methodology of Waste Water Treatability by Activated Sludge Process, (In Hungarian),
W77-01582 1004 5D

Biological Clarification Plant Started Up at the Wiesloch Corrugated Board Mill (Wellpappe Wiesloch nahm biologische Klaeranlage in Betrieb).
W77-01647 1004 5D

Dewatering of Activated Sludge with Filter Belt Presses,
W77-01651 1004 5D

An Investigation of the Separability and Reuse Potential of the Ash Component of High-Ash Content Paper Mill Sludges,
W77-01679 1004 5D

Dewatering Process,
W77-01738 1004 5D

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

Combined Filter and Dryer for Sewage Sludge Etc. - Uses Band of Vacuum Filter to Carry Cake Through Filter Press.
W77-02341 1005 5D

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

Modern Separation Processes for Eliminating Waste Water and Sludge Problems in Pulp and Paper Mills (Neuzeitliche Trennungsverfahren zur Beseitigung des Abwasser und Schlammproblemes in Zellstoff- und Papierfabriken),
W77-02569 1005 5D

Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

Characterization and Dewaterability of Water Treatment Plant Residues,
W77-03130 1007 5D

A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

Liming Farmland with Calcium Sludge,
W77-03163 1007 5D

System for Dewatering Dilute Slurries,
W77-03352 1007 5D

Sludge Collector and Light Liquid Separator-From Sewage with Two Tanks in Single Housing and Cover.
W77-03405 1007 5D

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Sludge Dewatering Pilot Plant Design, Part I,
W77-03416 1007 5D

Sludge Incineration.
W77-03419 1007 5E

Sludge - Where Will We Put It,
W77-03424 1007 5E

Design and Control of Nitrifying Activated Sludge Systems,
W77-03426 1007 5D

Minimizing the Waste Discharges from Water Treatment Plants,
W77-03455 1007 5D

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Sewage Sludge Irradiation System-Applying Electron Beam Before Mixing Gap Between Endless Belts Moving at Differential Speed.
W77-04679 1010 5D

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

Activated Sludge Treatment-Passing all Sewage by Force Pump Through Atmospheric Air Entraining Enjectors into Activation Tank,
W77-04682 1010 5D

Keeping up with Sludge at WPCF,
W77-04692 1010 5D

How to Keep an Old Plant Running,
W77-04694 1010 5D

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Subsurface Application Solves Community's Sludge Disposal Problem.
W77-04707 1010 5D

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

Centrifuges for the Treatment of Papermaking Effluents (Les centrifugeuses applicables au traitement des eaux residuaires de papeterie),
W77-04813 1010 5D

Experiences with the Thickening and Burning of Biological and Nonbiological Sludges (Erfahrungen bei der Entwaesserung und Verbrennung von biologischen und nichtbiologischen Schlaemmen),
W77-04814 1010 5E

Continuous Solid-Bowl Centrifuges for Clarification and Dewatering of Sludges in the Paper Industry (Centrifugeuses continues a bol plein pour clarification et deshydratation des boues dans l'industrie papetiere).
W77-04817 1010 5D

Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

Anaerobic Digester Supernatant Does not have to be a Problem,
W77-05317 1011 5D

Asphaltic Concrete Sludge Drying Beds,
W77-05525 1011 5D

New Sludge-Dewatering Press Makes Its Debut at Glatfelter (Paper Mill).
W77-05695 1012 5D

Sludge Dewatering and Handling Practices in the U.S. Paper Industry,
W77-05714 1012 5E

Increasing the Biological Value of Activated Sludge (Povyshenie biologicheskoi tsennosti aktivnogo ila),
W77-05717 1012 5D

Optimal Size of Regional Wastewater Treatment Plants,
W77-05929 1012 5D

Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

Process of Treating Gelatinous Sludge Agglomerations,
W77-06111 1013 5D

Converting Sewage Sludge into Compost.
W77-06112 1013 5D

The Ultimate Disposal of Sludge,
W77-06114 1013 5D

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Additional Studies on the use of Cracking Catalysts in Conjunction with Activated Sludge Waste Water Treating,
W77-06129 1013 5D

The First Fluosolids Incinerator Commissioned in the U.K.
W77-06130 1013 5D

Modules Permit Easy Expansion,
W77-06131 1013 5D

Sludge Treatment Specialists.
W77-06132 1013 5D

Sludge Incinerator Proves a Success.
W77-06137 1013 5D

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

Earth, Fire and Sludge,
W77-06153 1013 5E

Sludge in a State of Purity,
W77-06154 1013 5D

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

Molybdenum Hazard in Land Disposal of Sewage Sludge,
W77-06180 1013 5C

Waste Water Treatment. Aeration of Waste Water by Oxygen.
W77-06203 1013 5D

The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

The Purification of Highly Polluted Waste in a Test Plant, Using Pure Oxygen,
W77-06205 1013 5D

Research into the Use of Oxygen in Sewage Treatment in the United Kingdom,
W77-06207 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

Accumulation of Reserve Polysaccharide in Activated Sludges Treating Carbohydrate Wastes,
W77-06214 1013 5D

Electron-Beam Irradiation of Waste Products--e.g., For Sterilization of Sewage Sludge and Waste Industrial Products.
W77-06997 1014 5D

Sludge Separator.
W77-06998 1014 5D

Sludge Incineration at Esher.
W77-07020 1014 5E

Screenings Dewatering Press.
W77-07029 1014 5D

The Use of Polymers for Improving Chemical Sludge Dewatering on Sand Beds,
W77-07033 1014 5D

Trends in Sludge Treatment and Disposal Practices in the United States,
W77-07083 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Effect of Water Work's Sludge on Waste Water Treatment,
W77-07085 1014 5D

Sludge Dewatering Pilot Plant Design. Part 2,
W77-07088 1014 5D

Factors Influencing the Dewatering Characteristics of Sludge,
W77-07097 1014 5D

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

Inline Sensor Tightens Control on Sludge Consistency to Within 1.4-1.5% Solids,
W77-07214 1015 5D

Two New Methods of Sludge Removal,
W77-07224 1015 5D

Silk from Sow's Ears.
W77-07867 1016 5D

Save Sludge Handling Costs by Level Control,
W77-07868 1016 5D

Sludge Dewatering by Belt Filter.
W77-07905 1016 5D

Poly Aluminum Chloride in Sludge Treatment,
W77-07912 1016 5D

Controlling Sludge Bulking.
W77-07921 1016 5D

Continuous Thickening of Biological Sludges, and the Influence of Stability,
W77-07923 1016 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

Dewatering: A New Method Bows,
W77-08528 1017 5D

Enzymatic Treatment of Primary Municipal Sludge with Trichoderma Viride Cellulase,
W77-08529 1017 5D

Characterizing Sludge for Centrifugal Dewatering,
W77-08535 1017 5D

Dewatering Machines (Entwasserungsmachinen),
W77-08544 1017 5D

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

Cleaning of Sewage Sludge System.
W77-08561 1017 5D

S. W.'s Sludge Incineration scheme,
W77-08570 1017 5E

Oxygen System Activated Sludge Process.
W77-08575 1017 5D

Sewage Sludge Disinfected by Electron-Beam Bombardment.
W77-08580 1017 5D

Sludge Dewatering Press.
W77-08581 1017 5E

Filters and Sludge Drying Beds,
W77-08586 1017 5D

Perforated, Vitrified Clay Pipe Used in Peoria Facilities,
W77-08598 1017 8G

Higher Gas Yields and Reduced Retention Times Obtained from Anaerobic Digester,
W77-08600 1017 5D

High Speed Liquid Chromatographic Analysis of Cobalamin Productivity and Distribution in Activated Sewage Sludge Treatment,
W77-08621 1018 5A

Controlling Sludge Bulking,
W77-08636 1018 5D

Sludge Treatment: Problems and Solutions, Part 1,
W77-08640 1018 5D

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Optimal Control of an Unsteady State Continuous Activated Sludge System: A Comparison of Digital Computer Simulation Vs Pilot Plant Results,
W77-09597 1019 5D

Jet-Flame Saves Sludge Disposal Cost with Deodorizing Effect,
W77-09737 1020 5E

Continuous Filter Press.
W77-09826 1020 5D

Problems and Solutions for Sludge Treatment. Part 2,
W77-09829 1020 5D

How Sludge Characteristics Affect Incinerator Design,
W77-09869 1020 5E

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Method for the Determination of the Conditionability of Sewage Sludge (Erarbeitung von Methoden zur Ermittlung der Konditionierbarkeit von Klaerschlaemmen),
W77-09884 1020 5D

Identification of the Virucidal Agent in Waste Water Sludge,
W77-09897 1020 5A

Gravity Thickening of Water-Treatment-Plant Sludges,
W77-09912 1020 5D

$885 Million-Plus Plan is Recommended for Boston Area,
W77-10578 1021 5D

Sterilization of Purification Plant Sludge by Means of Electron Radiation (Hygienisierung von Klaerschlamm durch Elektronenbestrahlung),
W77-10604 1021 5D

Alum Sludge Disposal - Problems and Success,
W77-10616 1021 5E

Growth and Benefits of Low Speed Configuration,
W77-10622 1021 5D

Krakstad Waste Water Facility: The First to be Equipped with Contact Rolls for Biological Purification (Krakstad renseanlegg forst med kontaktvalser til biologisk rensing),
W77-10629 1021 5D

Energy Usage and Recovery in Sludge Disposal Part 1,
W77-10632 1021 5D

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

Activated Sludge,
W77-10646 1021 5D

Sludge Treatment, Utilization, and Disposal,
W77-10647 1021 5D

Biology and Biotechnology of Waste Water Treatment (Biologie und Biotechnologie der Abwasseraufbereitung),
W77-10650 1021 5D

Dewatering Machine,
W77-11019 1022 5D

Conceptual Model for Activated Sludge Processes,
W77-11485 1022 5D

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Mechanical Sewage Sludge Composting - In Mixer with Recycled Biogenic Mass Charging Revolving Heated Drum.
W77-11681 1023 5E

Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Overpurge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

Thermal Conditioning with Air.
W77-11696 1023 5D

The Pressure Drum Filter for Sludge Dewatering.
W77-11698 1023 5D

Basic Units Manufactured for Sludge Treatment.
W77-11699 1023 5D

Peripheral Mixing Turns Sludge into Fuel Gas.
W77-11704 1023 5D

Extensions to Great Billing STW Opened.
W77-11707 1023 5D

The Waste Water Treatment Bergstrasse - Possibilities and Selection of the Sludge Treatment (Die Klaeranlage Bergstrasse - Moeglichkeiten und Wahl des Schlammbehandlungs-systems),
W77-11711 1023 5D

Hygienization of Sewage Sludge by Electron Irradiation,
W77-11712 1023 5E

Brisbane Council's First in Australia at Sewerage Treatment Plant.
W77-11719 1023 5D

Viscosity Effects of Sludge.
W77-11722 1023 5E

Standing Committee on the Disposal of Sewage Sludge.
W77-11740 1023 5E

Thermal Drying of Sludge,
W77-11743 1023 5E

Significance of Temperature in the Activated Sludge Process,
W77-12142 1023 5D

Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

Processing of Coagulation Sediments of Textile Industry Effluents (Badania nad przerabianiem osadow pokoagulacyjnych ze sciekow przemyslu wlokienniczego),
W77-12346 1024 5D

Conveyor System Moves Sewage Quickly, Prevents Spillage.
W77-12447 1024 8G

Removal of Sludge from Waste Water Treatment Plant-By Rotary Sweep Footbridge with Inbuilt Suction Scraper.
W77-12457 1024 5D

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

Apparatus for Removing Solid Material from Sewage or Other Liquid,
W77-12947 1024 5D

Sludge Dewatering,
W77-12951 1024 5D

Sewage Sludge-Irradiation Device,
W77-12955 1024 5D

SLUDGE VISCOSITY

Viscosity Effects of Sludge.
W77-11722 1023 5E

SLUDGES

Chemical Composition of Sewage Sludges and Analysis of Their Potential Use as Fertilizers,
W77-09904 1020 5A

SLUICE GATE

Free Flow Immediately Below Sluice Gates,
W77-07161 1015 8B

SLUICE GATES

Air-Entrainment in High Head Gate Conduits,
W77-03835 1008 8C

Numerical Solution for Flow Under Sluice Gates,
W77-09012 1018 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

SLUICES
Center Sluice Investigation, Libby Dam Kootenai River, Montana; Hydraulic Model Investigation,
W77-10044 1020 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

SLUMPING (EROSION)
Present-Day Slumping and Erosion Phenomena on Irrigated Lands (Exemplified by Southeastern Ciscaucasia), (In Russian),
W77-08885 1018 2J

SLURRIES
Views from the Energy Industries.
W77-00548 1002 6D

Studies on the Collection and Disposal of Slurry in Northern Ireland,
W77-04613 1010 5D

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

Farm Waste Composting Process.
W77-04619 1010 5B

New Lost Circulation Remedy is Easy to Use.
W77-07299 1015 8G

Slurry and Pumping Guidelines Smooth Casing-Cementing Jobs,
W77-07699 1016 8F

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Specialty Cements Can Solve Special Problems,
W77-08664 1018 8F

Additives Tailor Cement to Individual Wells,
W77-08665 1018 8F

Selection of Slurry Pumps for Severe Applications,
W77-08673 1018 8C

Flow of Slurries in Pipelines,
W77-10970 1022 8B

Pressurized Pipeline Transport of Effluent Sediments (K voprosu perekachki osadkov stochnykh vod po napornym truboprovodam),
W77-12356 1024 5D

SLURRY FREEZING
A Butane Freezing Process for Dewatering Sludge,
W77-03153 1007 5D

SMALL ANIMALS (MAMMALS)
Experimental Ecology of Selected Vertebrate Species,
W77-03564 1007 6G

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

SMALL BOAT BASINS (DESIGN)
Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

SMALL CRAFT MARINAS
Ice Engineering in Small Craft Marinas, an Annotated Bibliography,
W77-05812 1012 2C

SMALL MARINE ANIMAL COLLECTOR
Small Marine Animal Collector for Use by Divers,
W77-06419 1013 7B

SMALL WATERSHEDS
Morphology of Cobble Streams in Small Watersheds,
W77-00089 1001 2E

Municipal Watershed Management Survey,
W77-01422 1003 4D

Field Monitoring Equipment for Hydrological Studies in a Small Catchment,
W77-01936 1004 7B

Operation of a Reservoir Collecting Water from a Small Watershed,
W77-02126 1005 4A

Suspended Sediment Production and Building Activity in a Small British Basin,
W77-02792 1006 4C

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

Some Thermal and Biological Effects of Forest Cutting in West Virginia,
W77-04273 1009 5C

Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

Small-Stream Flood Investigations in Minnesota, October 1958 to September 1975,
W77-08481 1017 2E

Annual Peak Discharges from Small Drainage Areas in Montana Through September 1976,
W77-08482 1017 2E

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

The Natural Abundance of N15 in the Soil-Water System of a Small Catchment Area,
W77-11081 1022 2G

Hydrology of Small Watersheds in Wisconsin's Driftless Area,
W77-11209 1022 2A

Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

Factors Influencing Natural Water Quality and Changes Resulting from Land-Use Practices,
W77-11425 1022 5C

Physico-Statistical Model of Rainfall Flood Formation and Determination of Its Parameters,
W77-12100 1023 2A

Mathematical Model of the Hydrometeorological Regime Formation of a River Basin,
W77-12102 1023 2A

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

The Philip Equation: A Feasible Model for Infiltration Estimation on Small Rangeland Watersheds,
W77-12274 1024 2G

SMELTS
Role of Predatory Cladocera in the Feeding of the Charkhal Kilka Clupeonella Delicatulacaspia Morpha Tscharchalensis (Borodin) in Kuibyshev Reservoir, (In Russian),
W77-00520 1001 2H

SMEMAX
Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

SMITH MOUNTAIN LAKE (VA)
A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

SMITH MOUNTAIN-LEESVILLE PROJECT (VA)
The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

SMITTIUM CULISETAE
Lipids of Smittium Culisetae,
W77-02547 1005 5A

SMOLT
Investigation of the Salmon (Salmo Salar) Smolt Migration of the Big Salmon River, New Brunswick, 1966-72,
W77-03059 1006 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

SNAIL DARTER
Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

SNAILS
Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

The Role of Silt in Eradication of Oncomelaniid Snails in Grassy Beaches, (In Chinese).
W77-02245 1005 5G

Aquatic Organisms Response to Severe Stress Following Acutely Sublethal Toxicant Exposure,
W77-04024 1008 5C

Effect of Temperature on Growth, Mortality, Reproduction, and Production of Adult Snails,
W77-05550 1011 5C

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

On a Snail's Chances of Becoming a Year Old,
W77-06290 1013 5C

Temperature Relations of Puget Sound Thaids in Reference to Their Intertidal Distribution,
W77-06767 1014 5C

Dispersal and Dispersion of Pond Snails in an Experimental Environment Varying to Three Factors, Singly and in Combination,
W77-06773 1014 5C

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

The Tugela-Vaal State Water Scheme as a Bilharzia Risk (Die Tugela-Vaal-Staatswaterskema as 'n Bilharziarisiko),
W77-09690 1020 5G

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

Effects of Heavy Metals (Cadmium, Copper, Chromium and Lead) on a Freshwater Snail, Biomphalaria Glabrata Say (Gastropoda, Prosobranchia),
W77-12038 1023 5C

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

SNAKE LAKE (WIS)
A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

SNAKE PLAIN AQUIFER (IDAHO)
Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

SNAKE RIVER
Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Structural Modifications,
W77-05087 1010 8A

Nitrogen Supersaturation Problem, Public Meeting, March 23, 1971,
W77-05088 1010 5A

Proposed Research and Development Program in Fiscal Years 1973 and 1974 at Columbia and Snake River Projects for Nitrogen Control,
W77-05089 1010 8A

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

Notes for Mid-Columbia PUD'S and Washington Department of Ecology Meeting on Revised Conceptual Plan for Complying With Supersaturated Gas Standard.
W77-05093 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Supersaturation ..Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1973,
W77-05769 1012 8I

Progress Report, Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers, 1974,
W77-05770 1012 8I

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

Dissolved Gas Supersaturation in the Columbia River System: Salmonid Bioassay and Depth Distribution Studies, 1973 and 1974,
W77-05786 1012 5B

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

27th Northwest Fish Culture Conference.
W77-08309 1017 2I

The Effects of Power Peaking on the Survival of Juvenile Fish at Low Columbia and Snake River Dams,
W77-11331 1022 5C

SNAKE RIVER BASINS (IDAHO)
Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

SNAKE RIVER (IDAHO)
Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

SNAKE RIVER INTERSTATE COMPACT
Snake River Interstate Compact.
W77-08996 1018 6E

SNAKE RIVER (OR)
Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

SNAKE RIVER PLAIN AQUIFER (IDAHO)
Aquifer Modeling Helps Farmers.
W77-08317 1017 2F

SNAKE RIVER SYSTEM
Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

SNAKEHEAD
Biology of the Snakehead in the Syr Darya Basin, (In Russian),
W77-01427 1003 2I

SNOW
On The Fracture Properties of Snow,
W77-00083 1001 2C

Snow-Road Construction--A Summary of Technology from Past to Present,
W77-01638 1004 4C

An Evaluation of Precipitation pH Data from the Washington, DC Area Collected During 1975,
W77-01703 1004 2B

Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

Kaiser Effect in Snow,
W77-02154 1005 2C

Snow Pressure on Rigid Obstacles,
W77-02463 1005 2C

Alternate Methods of Avalanche Control (Interim) (1974-1975),
W77-05810 1012 2C

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

The Polarization Characteristics of Lidar Scattering from Snow and Ice Crystals in the Atmosphere,
W77-06512 1013 2C

Snow and Ice Hydrology in the United States--Current Status and Future Directions,
W77-07565 1015 2C

Statistical Forecasting of Snow Avalanches, San Juan Mountains, Southern Colorado, U.S.A.,
W77-08055 1016 2C

Factors Affecting Snow Assessment from LANDSAT Data,
W77-08083 1016 7B

Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

On Depth Hoar and the Strength of Snow,
W77-08239 1017 2C

On the Use of Tensiometers in Snow Hydrology,
W77-09123 1019 2C

Laboratory Investigation of Rainfall Retention and Transmission in Fresh Snow,
W77-09322 1019 2B

Movement of Snow Avalanches,
W77-09716 1020 2C

Relation of Some Meteorological Elements to Avalanching in the Dukant River Basin (Western Tien-Shan),
W77-09718 1020 2C

Red and Near-Infrared Spectral Reflectance of Snow,
W77-10684 1021 2C

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

A Method of Estimating the Probability of Occurrence of Snow Water Equivalents in the United Kingdom,
W77-11601 1023 4A

SNOW ACCUMULATION
A Stochastic Snow Model,
W77-05489 1011 2C

SNOW AND ICE PENITENTS
Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

SNOW AUGMENTATION
Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

SNOW COVER
Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

An Operational Application of Satellite Snow Cover Observations - Northwest United States,
W77-02496 1005 2C

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

Role of the Snow Cover in the Nature of Northern Landscapes and Its Physical Properties,
W77-03988 1008 2C

Snow and Ice Surfaces Measured by the Nimbus 5 Microwave Spectrometer,
W77-04270 1009 2C

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

Objective Analysis of Snow Cover Fields,
W77-07678 1016 2C

Areal Extent of Snow Estimation in the Northern Sierra Nevada Mountains Using LANDSAT-1 Imagery,
W77-08081 1016 7B

The AFGWC Snow Cover Analysis Model,
W77-08223 1017 2C

Mathematical Description of Some Physical Snow Cover Characteristics,
W77-09717 1020 2C

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

Operational Applications of Satellite Snowcover Observations.
W77-10662 1021 2C

An Overview of the Applications System Verification Test on Snowcover Mapping,
W77-10663 1021 2C

The Application of Hydrometeorological Data Obtained by Remote Sensing Techniques for Multipurpose Reservoir Operations,
W77-10664 1021 4A

Interpretation of Snowcover from Satellite Imagery for Use in Water Supply Forecasts in the Sierra Nevada,
W77-10665 1021 4A

Operational Applications of Satellite Snowcover Observations in Rio Grande Drainage of Colorado,
W77-10666 1021 4A

Operational Application of Satellite Snowcover Observations- Northwest United States,
W77-10667 1021 7B

The Operational Program of Satellite Snowcover Observation at NOAA/NESS.
W77-10668 1021 4A

Use of Areal Snow Cover Measurements from ERTS-1 Imagery in Snowmelt-Runoff Relationships in Arizona,
W77-10669 1021 2C

Utilization of LANDSAT Monitoring Capabilities for Snowcover Depletion Analysis,
W77-10670 1021 2C

Operational Use of LANDSAT Imagery for the Estimation of Snow Areal Extent,
W77-10671 1021 7B

SNOW COVER

Operational Applications of NOAA-VHRR Imagery in Alaska,
W77-10672 1021 4A

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

Applications of Satellite Snow Cover in Computerized Short-Term Streamflow Forecasting,
W77-10674 1021 4A

Sierra Nevada Snow Melt from SMS-2,
W77-10675 1021 2C

Synopsis of Current Satellite Snow Mapping Techniques, with Emphasis on the Application of Near-Infrared Data,
W77-10676 1021 2C

Approaches to Digital Snow Mapping with LANDSAT-1 Data,
W77-10677 1021 2C

An All Digital Approach to Snow Areal Mapping and Snow Modeling,
W77-10678 1021 2C

Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

Snow Cover Monitoring by Machine Processing of Multitemporal LANDSAT MSS Data,
W77-10680 1021 2C

Snowcover Mapping by Machine Processing of SKYLAB and LANDSAT MSS Data,
W77-10681 1021 2C

A Progress Report on Estimating Snow Depth Using VHRR Data NOAA Environmental Satellites,
W77-10682 1021 2C

A Comparison of Operational and LANDSAT-Aided Snow Water Content Estimation Systems,
W77-10683 1021 2C

Remote Sensing of Snowpack Density Using Shortwave Radiation,
W77-10685 1021 2C

Microwave Emissions from Dry and Wet Snow,
W77-10687 1021 2C

Application of Bayesian Decision Theory to Airborne Gamma Snow Measurement,
W77-10688 1021 2C

Summary of the Operational Applications of Satellite Snowcover Observations Working Session - August 20, 1975,
W77-10689 1021 2C

NOAA-ARS Cooperative Snow Research Project. Watershed Hydro-Climatology and Data for Water Years 1960-1974,
W77-11662 1023 2C

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

SNOW COVER ANALYSIS

The AFGWC Snow Cover Analysis Model,
W77-08223 1017 2C

SNOW DAMAGE

Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

SNOW DEPTH

Determination of Snow Depth and Water Equivalent by Remote Sensing,
W77-05104 1011 2C

SNOW DEPTH PREDICTION

Predicting Snow Depths on a Mountain Watershed,
W77-09257 1019 2C

SNOW DUST AVALANCHES

Movement of Snow Avalanches,
W77-09716 1020 2C

SNOW FRACTURES

On The Fracture Properties of Snow,
W77-00083 1001 2C

SNOW MANAGEMENT

Airflow Patterns and Snow Accumulation in a Forest Clearing,
W77-00726 1002 4C

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

Alternate Methods of Avalanche Control (Interim) (1974-1975),
W77-05810 1012 2C

SNOW MELT

Runoff and Soil Erosion on Slopes Depending on Cultivated Crops, (In Russian),
W77-12587 1024 2J

SNOW REMOVAL

An Economic Analysis of the Environmental Impact of Highway Deicing,
W77-00923 1002 5C

Evaluation of the Use of Salt Brine for Deicing Purposes,
W77-01639 1004 4C

SNOW SURVEYS

Use of Satellite Survey Material in Glaciological Investigations,
W77-03851 1008 2C

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-04199 1009 2C

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

Some Patterns in the Microstructure of the Snow-Depth Field in the Mountain Regions,
W77-06302 1013 2C

River Basin Snow Mapping at the National Environmental Satellite Service,
W77-06915 1014 2C

Areal Extent of Snow Estimation in the Northern Sierra Nevada Mountains Using LANDSAT-1 Imagery,
W77-08081 1016 7B

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

SNOW TEMPERATURE

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

SNOW WATER EQUIVALENTS

A Method of Estimating the Probability of Occurrence of Snow Water Equivalents in the United Kingdom,
W77-11601 1023 4A

SNOWFALL

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

A Stochastic Snow Model,
W77-05489 1011 2C

SNOWMELT

Energy Balance Computations of Snowmelt in a Subarctic Area,
W77-00373 1001 2C

Seasonal Snow Accumulation, Melt and Water Input--A New England Model,
W77-00646 1002 2A

Snowmelt Lysimeters Perform Well in Cold Temperatures in Central Colorado,
W77-01432 1003 2C

Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

Winter Runoff from an Urban Catchment, (January to March 1974),
W77-02739 1006 4C

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

Determination of Snow Depth and Water Equivalent by Remote Sensing,
W77-05104 1011 2C

Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

A Computer-Aided Snowmelt Model for Augmenting Winter Streamflow Simulation in a Southern Ontario Drainage Basin,
W77-05247 1011 2C

A Stochastic Approach to Snowmelt Runoff Forecasting,
W77-05323 1011 2C

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

Computer Simulation of Snowmelt,
W77-05735 1012 2C

Synthesis of Snowmelt Runoff Hydrographs,
W77-06000 1012 2C

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier,

Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

U.B.C. Watershed Model,
W77-10969 1022 2A

Mathematical Model of Spring Runoff Formation,
W77-12101 1023 2A

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

SNOWMELT-FLOOD FREQUENCY MODEL

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

SNOWPACKS

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

Seasonal Snow Accumulation, Melt and Water Input--A New England Model,
W77-00646 1002 2A

Airflow Patterns and Snow Accumulation in a Forest Clearing,
W77-00726 1002 4C

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Measurements of Acoustic Properties of Hard-Pack Snow,
W77-02462 1005 2C

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

Water Loss from Snowdrifts Under Oasis Conditions,
W77-04174 1009 3B

Snow Accumulation as Related to Meteorological, Topographic, and Forest Variables in Central Sierra Nevada, California,
W77-05113 1011 2C

Suppression of Evaporation Losses from Snowpacks,
W77-05123 1011 3B

Mathematical Models of a Melting Snowpack at an Index Plot,
W77-05147 1011 2C

Seismic Signals Associated with Avalanches,
W77-05429 1011 2C

A Stochastic Snow Model,
W77-05489 1011 2C

Some Patterns in the Microstructure of the Snow-Depth Field in the Mountain Regions,
W77-06302 1013 2C

On Depth Hoar and the Strength of Snow,
W77-08239 1017 2C

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

SOCIAL ASPECT

Computerized Planning System for Nuclear Power Plant Evaluation,
W77-08108 1017 6B

SOCIAL ASPECTS

Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

Urban Sludge Disposal or Utilization Alternatives, Socio-Economic Factors,
W77-00013 1001 5E

Sludge Management Alternatives for Coastal Cities,
W77-00014 1001 5E

Social Impact Assessment: An Overview,
W77-00103 1001 6B

Fisheries Management and Social Context: The Case of the Maine Lobster Fishery,
W77-00383 1001 6B

Contracting for Social Impact Assessment,
W77-00771 1002 6G

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

Inland Water Pollution.
W77-01697 1004 5G

Providing for Provident Dogons,
W77-01896 1004 3B

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Residual Waste Management Research and Planning Projects, September 1975,
W77-03355 1007 5B

Institutions and Objectives on the Water, Energy, Environment Interface,
W77-03934 1008 6B

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

Social Well-Being and Water Resources Planning,
W77-04013 1008 6B

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Economic Models,
W77-05017 1010 6A

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

Discriminant Analysis of Characteristics Determining Acceptance or Rejection of Nuclear Power,
W77-08109 1017 6B

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

A Consultant's View of PL 92-500.
W77-08958 1018 5G

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

Social, Economic, and Environmental Impacts of Coal Gasification and Liquefaction Plants,
W77-11851 1023 6G

Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

Socioeconomic Aspects of Dredged Material Disposal: The Creation of Recreational Land in Urban Areas,
W77-12590 1024 5G

Institutional and Environmental Aspects of Geothermal Energy Development,
W77-12679 1024 6G

SOCIAL BEHAVIOR

Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

SOCIAL BEHAVIOR (ANIMAL)

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

SOCIAL CHANGE

Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

SOCIAL GOALS
Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

SOCIAL IMPACT
Dams and People: Geographic Impact Area Analysis,
W77-00008 1001 6B

Social Impact Assessment: An Overview,
W77-00103 1001 6B

Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

Contracting for Social Impact Assessment,
W77-00771 1002 6G

Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

Colorado River Basin Development and Its Potential Impact on Tribal Life,
W77-01903 1004 6B

Industrialist View,
W77-02050 1004 6G

Participation of ERDA in the Transport and Ecological Effects Categories of the Pass-Through Program,
W77-02654 1006 5G

Assessment of Flood Management Alternatives Against Social Performance Criteria, Phase II Report,
W77-03774 1008 6F

Middle Fork Bayou D'Arbonne Reservoir Project, Claiborne Parish, Louisiana: A Feasibility and Social Impact Study,
W77-04562 1009 6B

Aquatic Environmental Quality: Toxicology,
W77-05608 1012 5C

A New Reservoir and Recreational Behavior,
W77-06956 1014 6B

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

A Resource Allocation Model for the Evaluation of Alternatives in Section 208 Planning Considering Environmental, Social and Economic Effects,
W77-09192 1019 5G

Environmental, Fiscal and Socio-Economic Impact of Land Use Policies: Toward an Interactive Analysis,
W77-09196 1019 6B

Improved Local Planning for Reservoir-Oriented Recreation Opportunities,
W77-10102 1021 6B

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

SOCIAL IMPACT ANALYSIS
Social Well-Being and Water Resources Planning,
W77-04013 1008 6B

SOCIAL IMPACT ASSESSMENTS (SIA)
Contracting for Social Impact Assessment,
W77-00771 1002 6G

SOCIAL IMPACTS
Public Law 92-500 Economic and Social Impacts: Technical Volume.
W77-04307 1009 5G

SOCIAL PARTICIPATION
A Case Study of Citizen Participation in Resource Planning: The Crawford County Critical Resource Information Workshop.
W77-00171 1001 6B

The Participation of New York Communities in the Federal Flood Insurance Program,
W77-00671 1002 6F

Workshop Proceedings: Citizen Participation in Water Resources Decision-Making,
W77-00730 1002 6B

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Attitudes and Interactions of Citizen Advisory Groups and Governmental Officials in the Water Resources Planning Process,
W77-04294 1009 6B

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Financing Water Development Programs in an Ecological Age,
W77-05218 1011 6B

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Public Participation Techniques and Methodologies: A resume,
W77-07332 1015 6B

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

Public Participation in Water Resource Development,
W77-07526 1015 6B

Citizen Participation in Comprehensive Water Resources Planning,
W77-08105 1017 6B

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

Citizen Participation in Water Policy Formation,
W77-08603 1018 6B

Longitudinal Analysis of Change in Levels of Affiliation and Participation in Voluntary Formal Organizations,
W77-09058 1018 6B

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Comments Appendix.
W77-09383 1019 5G

Binghamton Wastewater Management Study: Public Involvement Appendix.
W77-09388 1019 5G

Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

Our Shining Waters. A Film on Lake Eutrophication,
W77-12266 1024 6B

SOCIAL SYSTEMS
Alternative Futures for Environmental Policy Planning: 1975 - 2000,
W77-00768 1002 5G

SOCIAL VALUES
Multiobjective Planning: Concepts and Methods,
W77-01346 1003 6B

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

The Role of Public Participation in Coastal Zone Management: An Assessment of the Attitudes of Relevant Interest Group Leaders Towards CZM '72,
W77-04479 1009 6B

Coastal Landforms and Scenic Analysis: A Review,
W77-04480 1009 6B

Focusing on Visual Quality of the Coastal Zone,
W77-04481 1009 6B

A Method to Determine Personal Values,
W77-06354 1013 6B

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

The Structural Analysis of Environmental Perception and Cognition: A Multidimensional Scaling Approach,
W77-08722 1018 6B

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

Our Shining Waters. A Film on Lake Eutrophication,
W77-12266 1024 6B

SOCIAL WELL-BEING
Social Well-Being and Water Resources Planning,
W77-04013 1008 6B

SOCIETAL GOALS
Quantifying Societal Goals: Development of a Weighting Methodology,
W77-10850 1022 6A

SOCIO-ECONOMIC DATA
An Evaluation of Economic and Demographic Data Useful in Water Resources Planning.
W77-10295 1021 6B

SOCIOECONOMIC CHANGE
A Factor Analysis of Socioeconomic Change in the Tennessee River Watershed,
W77-11767 1023 6B

SOCIOECONOMIC CHANGES
Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

SOCKEYE SALMON

Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

The Sensitivity of Young Salmonidae to Oxygen Deficiency,
W77-10235 1021 5C

SOCKEYE SALMON SMOLTS

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

SODA FORMATION

Resistance to Soda Salinization of Some Iraqi Soils,
W77-12730 1024 2G

SODIUM

Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Effect of Some Chemical Elements on the Accumulation of Cesium-137 in Freshwater Fish, (In Russian),
W77-08322 1017 5C

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

A Method of Concentrating the Major Impurities Contained in Ice By Ion Exchange,
W77-09122 1019 2C

Animal Waste Management in the Northern Great Plains,
W77-09399 1019 5D

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

Irrigation Trial with Morro Bay Wastewater,
W77-10623 1021 5D

Salt and Sodium Affected Soils in Relation to Nitrogen Utilization by Wheat,
W77-11623 1023 3C

Reclamation of a Saline-Sodic Soil by the High Saltwater-Dilution Method,
W77-12035 1023 3C

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

Effect of Salinity Fluctuation on the Osmotic Pressure and Na+, Ca2+ and Mg2+ Ion Concentrations in the Hemolymph of Bivalve Molluscs,
W77-12660 1024 5C

Basic Principles for Prognosis and Monitoring of Salinity and Sodicity,
W77-12766 1024 2G

Field Testing of a New System for Qualifying Irrigation Water,
W77-12769 1024 3C

SODIUM ALUMINATE

Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

SODIUM BICARBONATE

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Sodium Bicarbonate Can Settle Many Waste Water Problem Upsets,
W77-08589 1017 5D

SODIUM CARBONATE

Sodium Carbonate in Ground Waters of the Turkmen SSR, (In Russian),
W77-00384 1001 3C

Effects of Sodium Sulfate and Sodium Carbonate Solutions on Chemical and Physical Properties of a Chernozem Soil,
W77-11650 1023 2K

SODIUM CHLORIDE

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

The Effect of Pressure on the Ionization of Boric Acid in Sodium Chloride and Seawater from Molal Volume Data at 0 and 25 C,
W77-01190 1003 2K

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

The Effect of NaCl on the Concentration of Proline in Different Halophytes, (In German),
W77-04912 1010 2I

The Depuration of Waste Waters from Food-Preserving Factories. Influence of Sodium Chloride Concentration on the Depuration Yield of an Extended-Aeration Activated-Sludge Plant (Sulla depurazione degli scarichi idrici delle industrie conserviere. Influenza della concentrazione del cloruro sodico sul rendimento di depurazione in un impianto biologico funzionate ad aerazione prolungata),
W77-05501 1011 5D

Effect of Sodium Chloride on Blood Lactate and pH of Channel Catfish During Recovery from Hypoxia,
W77-06416 1013 5C

Effect of the Presence of Sodium Chloride in the Medium on Growth, Development and Distribution of Chlorine and Sodium in Sorghum Dochna F., (In French),
W77-07291 1015 3C

The Effect of Highway Deicing Salt on Chloride Budgets at Lake George, NY,
W77-08000 1016 5B

Effect of Sodium Chlorides and Sodium Sulfate on Plant Composition, (In Russian),
W77-11832 1023 3C

Foliar Contents of Sodium and Chloride on Citrus Rootstocks Irrigated with Saline Waters,
W77-12727 1024 3C

SODIUM COMPOUNDS

Studies on Lake Restoration by Phosphorus Inactivation,
W77-02442 1005 5G

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Sodium Bicarbonate Treats Acidic Industrial Wastes,
W77-10347 1021 5D

The Effects of Different Alkali Salts on Growth and Mineral Nutrient of Lemna Minor L. (Effect De Divers Sels Alcalins sur La Croissance at al Nutrition Minerale De Lemna Minor L.),
W77-12231 1023 5C

SODIUM DODECYLSULFATE

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

SODIUM-HAZARD
Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

SODIUM HYDROXIDE INDEX
Total Nitrogen Using a Sodium Hydroxide Index and Double Sampling Theory,
W77-00297 1001 2G

SODIUM IONS
Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

SODIUM LAURYL SULPHATE
A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

SODIUM NITRATE
Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

SODIUM PENTACHLOROPHENOL
Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

SODIUM PENTACHLOROPHENOLATE
The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

SODIUM SULFATE
Effects of Sodium Sulfate and Sodium Carbonate Solutions on Chemical and Physical Properties of a Chernozem Soil,
W77-11650 1023 2K

Effect of Sodium Chlorides and Sodium Sulfate on Plant Composition, (In Russian),
W77-11832 1023 3C

SOFIA (BULGARIA)
Meteorological Factors and Air Pollution in Sofia, (In Russian),
W77-01601 1004 5A

SOFT CLAM
The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

SOFT CLAMS
The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part II. Chemical Studies,
W77-07179 1015 5C

SOFT SHELL CLAM
Uptake and Retention of Kuwait Crude Oil and its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-04026 1008 5C

SOFT SOIL
Undrained Behavior of Embankments on New Liskeard Varved Clay,
W77-03108 1007 8D

SOFT WATER AREAS (MASS)
Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

SOFT-WATER BOG LAKE
Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

SOFTWARE
Prototype Software for On-Line Storage Forecasting Supported by Load Forecasting and Reduced System Representation for Water Distribution Systems,
W77-08942 1018 7C

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

SOIL AERATION
The Aeration Conditions of Southern and Ciscaucasian Chernozems Under Irrigation, (In Russian),
W77-02927 1006 2G

Combined Effects of Low Oxygen and Salinity on Germination of a Semi-Dwarf Mexican Wheat,
W77-03068 1006 3C

Nitrates in Effluents from Irrigated Lands - Annual Report,
W77-10941 1022 5B

Soil Aeration, Nitrate Reduction and Flooding Tolerance in Higher Plants,
W77-11517 1023 3C

SOIL AGGREGATES
Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

Evaluation of a Capillary Bundle Model for Describing Solute Dispersion in Aggregated Soils,
W77-05350 1011 2G

Strength of Soil Aggregates: Influence of Size, Density and Clay and Organic Matter Content,
W77-08707 1018 2G

Soil Aeration,
W77-10325 1021 2G

Effects of Various Soil Properties and Management Practices on Infrared Scan and Panchromatic Imagery from Portage la Prairie, Manitoba,
W77-12064 1023 2G

Salt Sieving Within Clay Soil Aggregates,
W77-12278 1024 2G

SOIL AIR PRESSURE
Soil Air Pressure Effects on Route and Rate of Infiltration,
W77-09293 1019 2G

SOIL ALGAE
Water Status and Distribution of Cyanidium Calderium in Soil,
W77-11788 1023 2G

Observations on Algae of Some Arid and Semi-Arid Soils of Rajasthan,
W77-11869 1023 2G

SOIL AMENDMENTS
The Effect of Digested Sludge on Soil Biological Activity,
W77-00612 1002 5D

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Crop Response to Tank Truck Application of Liquid Sludge,
W77-02390 1005 5C

Environmental Impacts of Land Application of Sludge,
W77-02391 1005 5D

Effects of Sewage Sludge Composition, Application Rate, and Lime Regime on Plant Availability of Heavy Metals,
W77-06175 1013 5C

Application of Sewage Sludge to Cropland.
W77-07869 1016 5E

Release of Cadmium from Clays and Plant Uptake of Cadmium from Soil as Affected by Potassium and Calcium Amendments,
W77-09962 1020 2G

Bacterial and Viral Pathogens Associated with Land Application of Organic Wastes,
W77-12445 1024 5E

Chemical Reclamation of Solonetz-Solochaks in the Ararat Plain and the Possibility of Utilizing Saline Waters for Leaching and Irrigation,
W77-12743 1024 3C

SOIL ANALYSIS
Chemical Changes in the Soil Solution from a Spodosol Irrigated with Secondary-Treated Sewage Effluent,
W77-00040 1001 5E

The Effect of Digested Sludge on Soil Biological Activity,
W77-00612 1002 5D

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

Arkansas River Water Quality Related to the Irrigation Potential of Associated Soils,
W77-02065 1004 5B

The Use of A Specific Ion Electrode for Determination of Bromide in Soils,
W77-02100 1005 2G

Trace Elements in Soils of the Dnieper-Bug Liman, (In Ukranian),
W77-02258 1005 2G

Extraction-Photometric Determination of Mercury in Soil and Water, (In Russian),
W77-02272 1005 5A

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Total Soil Fluoride Determination by a Single Distillation Selective Ion Electrode Procedure,
W77-04885 1010 2G

Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

Methods for Analyzing the Hydrological Characteristics of Organic Soils in Marsh-Ridden Areas,
W77-06439 1013 2G

Study of the State of Water on the Surface of H+, NA+, MG2+ Saturated Kaolinite by the NMR Method, (In Russian),
W77-07241 1015 2G

Nitrates in Some Soil-Water Systems in Quebec, (In French),
W77-07858 1016 5B

Fulvic Acid-Metal Ion Interactions in Water,
W77-08102 1017 5A

An Improved Technique for Measuring Soil pH,
W77-09295 1019 2G

Determination of Inorganic Phosphorus in Oxalate Extracts of Soils,
W77-10797 1021 5A

Soil Surface Sealing Caused by Rain Drop Impact,
W77-11107 1022 2G

Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

The Depth of Penetration with Water of the Pesticide BHC in the Presence of Sulfanol into the Ground, (In Russian),
W77-11523 1023 5B

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

Transition of Chemical Elements into Water Extracts from Soils with Different Mineralogical Compositions, (In Russian),
W77-12579 1024 2G

SOIL AUGERS

A Hydraulically Driven Soil Auger for Sampling Fine-Textured and Wet Soils,
W77-03063 1006 2G

SOIL BACTERIA

The Effect of Soil Moisture on the Development of Soil Microflora in Conditions of Field Experiments, (In Slovak),
W77-08696 1018 5B

Some Factors Affecting the Survival of Root-Nodule Bacteria on Desiccation,
W77-11080 1022 2I

Desiccation-Induced Damage to the Cell Envelope of Root-Nodule Bacteria,
W77-11105 1022 2I

SOIL BULK DENSITY

Influence of Soil Bulk Density on Horizontal Water Infiltration,
W77-05535 1011 2G

SOIL CARBON

Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

SOIL CHEMICAL PROPERTIES

Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Mechanism of Interaction of Weakly Mineralized Irrigation Water with Soil, (In Russian),
W77-00524 1001 2G

Soils of the Meshed Tract in Southwestern Turkmen SSR, (In Russian),
W77-00975 1002 2G

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

The Effect of Ammonia and Ammonia-Sulfur Solutions on Nitrification Rates and Chemical Properties of a Calcareous Soil,
W77-02276 1005 2G

Effect of Irrigation on Some Properties of Southern Chernozems, (In Russian),
W77-02889 1006 2G

Physical and Chemical Properties of Takyr Soils and Changes in Their Agrochemical Properties After Irrigation, (In Russian),
W77-02929 1006 3F

Reactions of Heavy Metals With Soils With Special Regard to Their Application in Sewage Wastes,
W77-03359 1007 5B

Soil Sampling from Experimental Fields, (In Romanian),
W77-05189 1011 2G

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: II. Colloidal Interactions in the Absence of Drying,
W77-09975 1020 2G

Correlation of Plant Manganese with Extractable Soil Manganese and Soil Factors,
W77-10281 1021 2G

Maryland Research Finding Guidelines for Sludge Use.
W77-10580 1021 5E

Effects of Sodium Sulfate and Sodium Carbonate Solutions on Chemical and Physical Properties of a Chernozem Soil,
W77-11650 1023 2K

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

The Effect of Erosion on the Water and Physicochemical Properties of Soil on the Altai Mountain Slopes Near the OB River (USSR), (In Russian),
W77-12543 1024 2J

Potential for Saline Water Irrigation of Tropical Soils,
W77-12744 1024 3C

SOIL CHEMISTRY

Disposition of Fertilizer Nitrate Applied to a Swelling Clay Soil in the Field,
W77-00144 1001 5B

Retention of Arsenic by Hydroxy-Aluminum on Surfaces of Micaceous Mineral Colloids,
W77-00283 1001 5B

The Activity Concept of Phosphate-Rock Solubility,
W77-00290 1001 2K

Effect of Anion Exclusion on the Movement of Chloride Through Soils,
W77-00293 1001 5B

Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

Nitrogen Transformations of Ammonium Sulfate and Alanine in Submerged Maahas Clay,
W77-00639 1002 5B

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: IV. Effect of Calcium Carbonate Content,
W77-01515 1003 2G

The Use of A Specific Ion Electrode for Determination of Bromide in Soils,
W77-02100 1005 2G

The Effect of Ammonia and Ammonia-Sulfur Solutions on Nitrification Rates and Chemical Properties of a Calcareous Soil,
W77-02276 1005 2G

Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Determination of Total Mercury in Soils and Sediments,
W77-05201 1011 5A

The Chemistry of Lead and Cadmium in Soil: Solid Phase Formation,
W77-05202 1011 5B

SOIL CHEMISTRY

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

The Release of Metal Ions to Ground Water by Soils,
W77-09405 1019 5B

Nitrification-Denitrification Reactions in Flooded Soils and Water Bottoms: Dependence on Oxygen Supply and Ammonium Diffusion,
W77-09437 1019 2G

Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

Microbial Formation of Volatile Selenium Compounds in Soil,
W77-09648 1020 2G

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

Microbial Inorganic Polyphosphates: Factors Influencing Their Accumulation,
W77-09965 1020 2G

Comparison of Five Kinetic Models for Orthophosphate Reactions in Mineral Soils,
W77-09968 1020 2G

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

Influence of Soil pH on the Availability of Added Boron,
W77-10274 1021 2G

Potassium Release from Sand, Silt, and Clay Soil Separates,
W77-10277 1021 2G

Irrigation with Brackish Water: Chemical and Hydraulic Changes in Soils Irrigated with Brackish Water Under Cotton Rotation,
W77-11071 1022 3C

Penetrability and Sorptivity in Calcareous Soils,
W77-11095 1022 2G

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

SOIL CLASSIFICATION

Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Cation-Exchange Capacity of Acid Soils Using Aluminum Chloride and Barium Chloride-Triethanolamine,
W77-09652 1020 2G

SOIL COLUMNS

Short Term Nitrate Losses and Associated Microbial Populations in Soil Columns,
W77-00309 1001 2G

Fixation of Iron and Zinc Applied as Chelates into a Soil Column During Leaching,
W77-02280 1005 2G

A Device for Isolating Field Soil Columns with Minimum Disturbance,
W77-03065 1006 2G

A Method for the Simultaneous Control of the Water Regime and Gaseous Atmosphere in Soil Columns,
W77-11614 1023 2G

Soil Water Movement During the First Stage of Drying of a Moist, Sandy Soil Under a Very Low Drying Rate,
W77-12314 1024 2G

SOIL COMPACTION

Influence of an Inserted Asphalt Layer on the Plant Yield on a Light Soil, (In Polish),
W77-00513 1001 3F

Persistence of Subsoil Compaction in a Mollisol,
W77-05353 1011 2G

SOIL CONDITIONERS

The Influence of Soil Conditioners on the Liquid-Solid Contact Angles of Sands and Silt Loams,
W77-03626 1008 2G

SOIL CONDUCTIVITY

Field Mapping Soil Conductivity to Delineate Dryland Saline Seeps with Four-Electrode Technique,
W77-01622 1004 2G

SOIL CONSERVATION

Erosion in 1973-74: The Record and the Challenge,
W77-00471 1001 2J

Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Effects of Soil Conservation Treatment on Runoff and Sediment Loss from a Catchment in Southwestern New South Wales, Australia,
W77-02772 1006 4D

Erosion Control,
W77-04315 1009 4D

No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Current Methods Used in the Soil Conservation Service to Estimate Sediment Yield,
W77-06657 1014 4D

Scientific Bases of a System for Averting Unfavorable Consequences of Steppe Soil Irrigation, (In Russian),
W77-10021 1020 2G

SOIL CONSISTENCY

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

SOIL CONTAMINATION

Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Nitrogen in Soil Cores and Ground Water Under Abandoned Cattle Feedlots,
W77-00365 1001 5B

Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

Experiments to Investigate Substantial Load of Soils and to Predict the Long Term Effects of Wastes on Ground Water, (In German),
W77-00703 1002 5B

Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

Arkansas River Water Quality Related to the Irrigation Potential of Associated Soils,
W77-02065 1004 5B

Accumulation of Heavy Metals in Soils from Extended Waste Water Irrigation,
W77-07049 1014 5B

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W77-08706 1018 5B

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Simulation of Two-Dimensional Contaminant Transport with Isoparametric Hermitian Finite Elements,
W77-08829 1018 5B

SOIL CONTAMINATION EFFECTS

Land Disposal of Liquid Sewage Sludge: III. The Effect on Soil Nitrate,
W77-01557 1004 5D

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

Effects of Trace Elements on Urease Activity in Soils,
W77-06165 1013 5C

Cadmium Distribution in Forest Ecosystems Irrigated with Treated Municipal Waste Water and Sludge,
W77-06178 1013 5B

SOIL CORES

A Procedure for the Sampling and Testing of Large Soil Cores,
W77-00286 1001 2G

A Compaction Apparatus for the Preparation of Soil Cores of Different Bulk Densities and Thicknesses,
W77-03067 1006 2G

SOIL CRUSTING

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

SOIL CRUSTS

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

SOIL DENSITY

Soil Bulk Densities after Thirty Years under Different Management Regimes,
W77-00287 1001 2G

The Effect of Bulk Density on Neutron Meter Calibration,
W77-00440 1001 2G

Influence of Soil Bulk Density on Horizontal Water Infiltration,
W77-05535 1011 2G

Physical and Hydrophysical Properties of the Soils at the Greenhouse Unit Isalnita-Dolj, (In Rumanian),
W77-09488 1019 2G

Constitution of Southern Calcareous Chernozems Depending on their Density, (In Russian),
W77-12469 1024 2G

SOIL DISPOSAL FIELD S

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

SOIL DISPOSAL FIELDS

Some Soil Hydraulic Considerations in Liquid Waste Disposal,
W77-01354 1003 5E

Groundwater Pollution From a Septic Tile Field,
W77-04728 1010 5B

Application of Sewage Sludge to Cropland.
W77-07869 1016 5E

Soil Testing for Sludge Disposal.
W77-08728 1018 5E

A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

Virus and Bacteria Removal from Waste Water by Rapid Infiltration Through Soil,
W77-09860 1020 5D

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12688 1024 5D

SOIL DISSOLUTION

The Contribution of Red Clay Erosion to Orthophosphate Loadings into Southwestern Lake Superior,
W77-12307 1024 5B

SOIL DYNAMICS

Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

SOIL ELECTRICAL CONDUCTIVITY

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

SOIL EROSION

Geomorphological Mapping Applied to Soil Erosion Evaluation,
W77-00369 1001 2J

An Overview of Urban Sedimentology,
W77-00491 1001 4C

Erosion Potential of Soils,
W77-00776 1002 2J

Soil Erosion Concepts and Misconceptions,
W77-00793 1002 2J

Determining Erosion from Hawaiian Agricultural Lands,
W77-00803 1002 4D

The Universal Soil Loss Equation as Adapted to the Pacific Northwest,
W77-00804 1002 2J

Pesticide Concentrations and Yields in Runoff and Sediment from a Mississippi Delta Watershed,
W77-00813 1002 5B

Soils of the Meshed Tract in Southwestern Turkmen SSR, (In Russian),
W77-00975 1002 2G

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Dust Storms,
W77-01895 1004 2B

Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

Sediment Problems in the Savannah River Basin,
W77-02320 1005 2J

Effects of Man on the Interface of the Hydrological Cycle with the Physical Environment.
W77-02771 1006 4D

Prediction of Erosion Intensification by Man,
W77-02784 1006 4C

Soil Cover Governs Soil Loss on United States Claypan Soils,
W77-02787 1006 4D

Suspended Sediments from Urban Development,
W77-02788 1006 4C

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Laboratory Techniques in the Prediction of Soil Erodibility,
W77-03827 1008 4D

Hydraulics of Slope Erosion by Overland Flow,
W77-03994 1008 2J

Alteration of Water Regulating and Protective Features of the Forest Under Influence of Forestry Measures, (In Russian),
W77-04002 1008 4C

Intensity of Rainfall in Clermone-Ferrand, (In French),
W77-04032 1008 2B

An Experimental Investigation of the Rainfall on the Turbulence Properties of Overland Flow,
W77-04177 1009 2E

Erosion Control,
W77-04315 1009 4D

Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

Soil Movement in Established Gullies After a Single Prescribed Burn in the South Carolina Piedmont,
W77-05118 1011 4C

Effect of High Intensity Storms on Soil Slippage on Mountainous Watersheds in Southern California,
W77-05119 1011 4D

Change of Organic Substances in Virgin and Arable Cinnamonic Calcareous Mountain Soils Depending on the Degree of their Erosion, (In Russian),
W77-05220 1011 2J

Predicting Particle-Size Composition of Eroded Soil,
W77-05439 1011 2J

Towards a Routine Test for the Assessment of the Critical Tractive Forces of Cohesive Soils,
W77-05440 1011 2J

Restoration and Protection of Degraded Slopes,
W77-05948 1012 4D

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

SOIL EROSION

Evaluation of Sediment Yields Due to Urban Development,
W77-07705 1016 4D

The Hydrology of a Small Catchment Basin at Samaru, Nigeria: IV: Assessment of Soil Erosion Under Varied Land Management and Vegetation Cover;
W77-08698 1018 4D

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Grassing Roads and Eroded Areas in the Drakensberg,
W77-10075 1020 4D

Watershed Sediment Yield,
W77-10790 1021 4D

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

Use of a Versatile Experimental System for Soil Erosion Studies,
W77-11237 1022 2J

Predicting Particle-Size Composition of Eroded Soil,
W77-11409 1022 2J

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

Effects of Soil, Cover Crop, and Nutrient Source on Movement of Soil, Water, and Nitrogen Under Simulated Rain-Slope Conditions,
W77-12309 1024 2B

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

Correlation of Soil Quality Under Different Levels of Agriculture, (In Russian),
W77-12487 1024 2G

The Effect of Erosion on the Water and Physicochemical Properties of Soil on the Altai Mountain Slopes Near the OB River (USSR), (In Russian),
W77-12543 1024 2J

Transient Wind Erosion: A Study of the Nonstationary Effect on Rate of Wind Erosion,
W77-12552 1024 2J

Runoff and Soil Erosion on Slopes Depending on Cultivated Crops, (In Russian),
W77-12587 1024 2J

Grassland Renovation - Conserves Soil and Energy and Increases Returns from Grass Fields,
W77-12622 1024 4D

Conservation Tillage - Effects on Crop Production and Sediment Yield,
W77-12626 1024 3F

Effects of Man on Sedimentation and Erosion in Rural Environments,
W77-12843 1024 4D

Experimental Equipment for Studying Soil Erosion Resistance and Some Results of Its Appliation, (In Russian),
W77-12999 1024 2G

Enzymatic Activity of Gray Forest Soils, (In Russian),
W77-13000 1024 2G

SOIL FERTILITY

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

SOIL FILTERS

Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

Waste Water Treatment by Upflow Sand Filtration,
W77-08087 1016 5D

Rapid Sand Filtration for Best Practical Treatment of Domestic Waste Water Stabilization Pond Effluent,
W77-09853 1020 5D

Phosphate Removal from Sewage Water by Soil Columns,
W77-12420 1024 5D

SOIL FORMATION

Soils of the Tedzen-Hurghab Interfluvial Area, (In Russian),
W77-05960 1012 2G

Soil Formation on Loess in Southwestern Indiana: I. Loess Stratigraphy and Soil Morphology,
W77-07762 1016 2G

Soil Formation on Loess in Southwestern Indiana: II. Distribution of Clay and Free Oxides and Fragipan Formation,
W77-07763 1016 2G

Characteristics of the Meana-Chaachin Plain Soil-Forming Process, (In Russian),
W77-09502 1019 2G

Effect of a Saline and Alkaline Ground Water on Soil Genesis in Semiarid Southern Iran,
W77-12280 1024 2G

SOIL FROST

Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

SOIL GASES

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Soil Aeration,
W77-10325 1021 2G

A Method for the Simultaneous Control of the Water Regime and Gaseous Atmosphere in Soil Columns,
W77-11614 1023 2G

SOIL GROUPS

Effect of Irrigation on Some Properties of Southern Chernozems, (In Russian),
W77-02889 1006 2G

The Aeration Conditions of Southern and Ciscaucasian Chernozems Under Irrigation, (In Russian),
W77-02927 1006 2G

SOIL-HEAT FLUXES

Soil-Heat Flux Determination: Temperature Gradient Method with Computed Thermal Conductivities,
W77-09434 1019 2G

SOIL HORIZONS

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

SOIL HYDRAULIC CHARACTERISTICS

Some Soil Hydraulic Considerations in Liquid Waste Disposal,
W77-01354 1003 5E

SOIL INSECTICIDES

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

SOIL INTERFACE LAYER

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

SOIL INVESTIGATION

Extraction of Soil Water Using Cellulose-Acetate Hollow Fibers,
W77-09967 1020 2G

SOIL INVESTIGATIONS

Spatial Variability in Soils Below Depth of Tillage: Bulk Density and Fifteen Atmosphere Percentage,
W77-00284 1001 2G

Denitrification Rates in Relation to Total and Extractable Soil Carbon,
W77-00294 1001 2G

Sodium Availability in Nonalkali Soils,
W77-00296 1001 2G

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Nitrate Reduction and Nitrite Utilization by Nitrifiers in an Unsaturated Hanford Sandy Loam,
W77-00478 1001 5B

Mulch and Microclimate: The Significance of Mulch and the Change in Temperature Behavior Resulting from It, (In Dutch),
W77-01447 1003 2G

Soil Changes Resulting from Cropping,
W77-02284 1005 2G

A Device for Isolating Field Soil Columns with Minimum Disturbance,
W77-03065 1006 2G

A Technique for Installing Induction Coils in a Profile with Minimum Soil Disturbance,
W77-03069 1006 2G

Effect of Temperature on Denitrification Rate in Soils,
W77-03070 1006 2G

The Chemistry of Lead and Cadmium in Soil: Solid Phase Formation,
W77-05202 1011 5B

The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

Nitrite Decomposition in Flooded Soil Under Different PH and Redox Potential Conditions,
W77-09645 1020 2G

Distribution of Plutonium in Trinity Soils After 28 Years,
W77-09647 1020 5B

Influence of Salt and Alkali on Ionic Equilibria in Submerged Soils,
W77-10282 1021 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

SOIL LOSS

The Application of HYMO to Study Areas of Southwestern Wyoming for Surface Runoff and Soil Loss Estimates,
W77-03729 1008 4A

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Economic Trade-Offs to Limit Nonpoint Sources of Agricultural Pollution,
W77-05255 1011 5G

SOIL LOSSES (RAINFALL)

Rainfall Parameters to Predict Surface Runoff Yields and Soil Losses from Selected Field-Plot Studies,
W77-11964 1023 2B

SOIL MANAGEMENT

Natural Filtering of Suspended Soil by a Stream at Low Flow,
W77-01428 1003 4C

Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Water Use and Productivity of Wheat Under Five Irrigation Treatments,
W77-05221 1011 3F

Utilization of Soils Information in Coastal Area Management,
W77-05407 1011 2L

Water Repeliency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

SOIL MATRIC POTENTIAL

Diurnal Fluctuation of Leaf-Water Potential of Corn as Influenced by Soil Matric Potential and Microclimate,
W77-03394 1007 3F

SOIL MATRIX POTENTIAL

Horizon Hydraulic Conductivities Determined In Situ for the Wilderness, Mexico and Menfro Soils and Used to Predict Soil Water Content,
W77-07103 1015 2G

SOIL MECHANICS

Method of Protecting a Pile Imbedded in Offshore Areas Having a Shifting Layer of MUD,
W77-01711 1004 8D

A Technique for Installing Induction Coils in a Profile with Minimum Soil Disturbance,
W77-03069 1006 2G

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

A Laboratory Study of Fluid and Soil Mechanics Processes During Hydraulic Dredging (Hydraulische und Bodentechnische Vorgange beim Grundsaugen),
W77-06883 1014 8D

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Seepage from Small Earth Dams,
W77-09932 1020 8D

Land Subsidence and Cracking Due to Ground-Water Depletion,
W77-12803 1024 2F

SOIL MICROBIOLOGY

Mulch and Microclimate: The Significance of Mulch and the Change in Temperature Behavior Resulting from It, (In Dutch),
W77-01447 1003 2G

Microbial Concerns When Wastes are Applied to Land,
W77-11976 1023 5C

Microbiological Characteristics of Certain Types of Marshy Forests of the Tavda Transural Region, (In Russian),
W77-12016 1023 2G

SOIL MICROORGANISMS

Disappearance and Migration of Propanil and Its Metabolite 3,4-Dichloraniline in an Irrigated Landscape, (In Russian),
W77-05495 1011 5B

The Effect of Soil Moisture on the Development of Soil Microflora in Conditions of Field Experiments, (In Slovak),
W77-08696 1018 5B

SOIL MOISTURE

Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Transport of Carbon14-Assimilates in the Sugar Beet Under Different Conditions of Nutrition and Moisture, (In Russian),
W77-00421 1001 5B

Estimation and Simulation of Sheet Runoff,
W77-00439 1001 4A

Effect of Soil Moisture on Delivery of Nitrogen-15 to Winter Wheat Plants, (In Russian),
W77-01035 1002 2G

Leaf Water Potential and Stomatal Activity in Sorghum as Influenced by Soil Moisture Stress,
W77-01276 1003 2I

Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

The Effect of Environmental Factors on the Growth of a Natural Pasture,
W77-01285 1003 2I

Influence of Hysteresis on Moisture Flow in an Undisturbed Soil Monolith,
W77-01323 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: I. Thermal Effects,
W77-01327 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: II. Moisture Effects,
W77-01328 1003 2G

A Recording Soil Moisture Tensiometer,
W77-01429 1003 2G

The Influence of Soil Moisture After Planting on the Growth and Differentiation of the Pedunculate Oak (Quercus Pedunculata Ehrh. Var. Tardiflora Czer, (In Bulgarian),
W77-01498 1003 2I

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

Effect of Soil Cultivation, Fertilizers and Preceding Crops on the Accumulation, Retention and Consumption of Moisture by Soil and Winter Wheat Plants, (In Russian),
W77-01736 1004 3F

CO2 Compensation Point for Photosynthesis: Effect of Variable CO2 and Soil Moisture Levels,
W77-01899 1004 2I

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

Soil Moisture Survey Experiment at Phoenix, Arizona,
W77-01914 1004 2G

Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

Vegetation and Soil of Saline Depressions Near Najaf, Central Iraq,
W77-02116 1005 3C

Water Management of Short-Season High-Density Cotton,
W77-02164 1005 3F

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

SOIL MOISTURE

Remote Sensing of Soil Moisture by a 21-CM Passive Radiometer,
W77-02480 1005 2G

Satellite Microwave Observations of Soil Moisture Variations,
W77-02495 1005 2G

Irrigating Soybeans with Limited Water,
W77-02523 1005 3F

Structural Composition and Some Problems of the Water Regime of Dark-Chestnut Soils of the Kustanai Oblast in Connection with the Duration of their Cultivation, (In Russian),
W77-02853 1006 2G

Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Effect of Groundwater Moisture on the Formation of the Sandy Soils of the Ket-Tym Region of the Ob River, (In Russian),
W77-02885 1006 2G

A Comparative Study of the Effect of Soil Moisture on the Growth and Transpiration of Certain Poplar Forms, (In Bulgarian),
W77-02886 1006 2I

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

Cultivation and Breeding of Oenothera-Plant: IV. Effect of Soil Moisture on Growth and Components in Seed of O. Biennis, (In Japanese),
W77-03148 1007 2I

Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

Rates of Urea Hydrolysis in Five Soils of India,
W77-03632 1008 2G

Soil Moisture Movement by Temperature Gradient,
W77-03861 1008 2G

Surface Soil Moisture Within a Watershed--Variations, Factors Influencing, and Relationship to Surface Runoff,
W77-04253 1009 2G

Estimation of the Depth of Soil Freezing in Drainage Basins in the Central Part of the Northwestern European USSR,
W77-04259 1009 2G

Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

Silvicultural Aspects of Forest Drainage,
W77-04390 1009 4A

Theoretical Analysis of Wetting Front Instability in Soils,
W77-04768 1010 2G

The Pulsed Irrigation Principle for Controlled Soil Wetting,
W77-04770 1010 2G

Moisture Regime of Sandy Desert Soils, (In Russian),
W77-04795 1010 2G

Water Regime of Central Kara Kum Soils in Connection with Rangeland Afforestation, (In Russian),
W77-04855 1010 2G

Effect of the Groundwater Level and Soil Moisture Content on Photophosphorylation of Barley, Wheat and Oat Chloroplasts, (In Belorussian),
W77-04884 1010 2I

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

Infiltration Through Soil with a Slightly Permeable Buried Membrane,
W77-04887 1010 2G

Soil Water Availability in an Arizona Mixed Conifer Clearcutting,
W77-05121 1011 4D

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

Effects of Antecedent Soil Moisture on Storm Hydrographs,
W77-05603 1012 2A

Soil Moisture: Some Fundamentals,
W77-05815 1012 2G

Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

Yield and Nitrogen Utilization by Wheat in Relation to Moisture and Fertility Levels,
W77-06241 1013 3F

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

Generalized Dependence of Moisture Pressure and Conductivity on Moisture Content in Uniform Mechanical Soil Fractions, (In Russian),
W77-06369 1013 2G

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Moisture and Temperature of Soil in Different Sites of a Fir Stand, (In Italian),
W77-06466 1013 2G

Characteristics of the Behavior of Moisture in Sandy Loams and Clay Loams of Automorphic Soils in Connection with Their Porosity, (In Russian),
W77-06483 1013 2G

Remote Sensing of Soil Moisture with Microwave Radiometers-II,
W77-06530 1013 7B

Land Forming Systems to Improve Water Use Efficiency,
W77-06761 1014 3F

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

A Method of Evaluating a Field Water Capacity Using PF-3, (In French),
W77-06844 1014 2G

Suction Head at Wet Front in Unsaturated-Flow Problems--A New Definition,
W77-07144 1015 2G

Automatic Monitoring of Soil Moisture Conditions in a Hillslope Spur and Hollow,
W77-07146 1015 2G

The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

Microwave Remote Sensing of Soil Moisture,
W77-08066 1016 7B

Soil Moisture Detection from Skylab,
W77-08067 1016 7B

The Correlation of Skylab L-Band Brightness Temperatures with Antecedent Precipitation,
W77-08068 1016 7B

A Simulation of an Irrigation Scheduling Model Which Incorporates Rainfall Predictions,
W77-08343 1017 3F

Growth of Tropical and Temperate Grasses at Palmerston North I. Warm-Season Yields With and Without Irrigation,
W77-08457 1017 3F

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

The Effect of Soil Moisture on the Development of Soil Microflora in Conditions of Field Experiments, (In Slovak),
W77-08696 1018 5B

Problems of Optimum Soil Moisture Level: Determination and Control, (In Russian),
W77-08952 1018 2G

Soil Air Pressure Effects on Route and Rate of Infiltration,
W77-09293 1019 2G

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Satellite Microwave Observations of Soil Moisture Variations,
W77-09335 1019 2G

Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

Determination of Hydraulic Parameters to Estimate Water Movement and Water Storage in Undisturbed Soil: Comparison of Field and Laboratory Methods, (In German),
W77-09624 1020 2G

A Laboratory Model to Investigate the Soil Moisture Conditions on a Draining Slope,
W77-09712 1020 2G

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

The Release of Nitrogen from Sulfur-Coated Urea as Affected by Soil Moisture, Coating Weight, and Method of Placement,
W77-10270 1021 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Automatic Feedback Control to Maintain Constant Soil Moisture Tension in the Study of Drought Tolerance in Rice,
W77-11229 1022 2G

Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

Water Transport from Roots to Soil,
W77-11391 1022 2G

Comparison of the Results of an Experimental Study on the Soil Water System Using Computer Analysis, (In Russian),
W77-11392 1022 2G

Soil Solution Concentrations: Effect of Extraction Time Using Porous Ceramic Cups Under Constant Tension,
W77-11397 1022 2G

Anatomical Response of Potato Stems and Roots to Soil Moisture and Rates of Fertilizer,
W77-11398 1022 3F

Estimation of Net Water Demand of Crops in the Upper Berg River Valley,
W77-11580 1023 3F

An Ultrasonic Nebulization Technique for Adding Aqueous Solutions Uniformly to Dry Soils,
W77-11616 1023 2G

Note on Evapotranspiration by Profile-Depletion Method in Deep Vertisol,
W77-11632 1023 2D

Water Repellency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

Observations on Algae of Some Arid and Semi-Arid Soils of Rajasthan,
W77-11869 1023 2G

Effect of Soil Moisture Tension and Amendments on Yields and on Herbage N, P, and S Concentrations of Alfalfa,
W77-11942 1023 3F

Nutrient Uptake by Corn and Grain Sorghum Silage as Affected by Soil Type, Planting Date, and Moisture Regime,
W77-11948 1023 3F

Growth and Mineral Composition of Rice at Various Soil Moisture Tensions and Oxygen Levels,
W77-11950 1023 3F

Extended Field Use of Screen-Covered Thermocouple Psychrometers,
W77-12116 1023 2G

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

Solution of the One-Dimensional Linear Moisture Flow Equation with Implicit Water Extraction Functions,
W77-12170 1023 2G

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

Research on Efficient Water Use,
W77-12282 1024 2G

Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

Use of Thermodynamic Potential of Soil Moisture for Studying Soil and Plant Hydrophysics, (In Russian),
W77-12471 1024 2G

Correlation of Soil Quality Under Different Levels of Agriculture, (In Russian),
W77-12487 1024 2G

Effects of Irrigation Scheduling and Coordinated Delivery on Irrigation and Drainage Systems,
W77-12504 1024 3F

Remote Sensing of Soil Moisture.
W77-12516 1024 2G

Spatial Variation of Moisture in Podzolic Soils, (In Russian),
W77-12524 1024 2G

Irrigation Management of Short-Season, High-Density Cotton,
W77-12607 1024 3F

Soil Moisture Statistical Parameters as a Function of Soil Moisture Potential and Methods of Their Determination, (In Russian),
W77-12713 1024 2G

Numerical Analysis of Two-Dimensional Infiltration and Redistribution,
W77-12806 1024 2G

Electrical Methods of Determining Soil Moisture Content,
W77-12818 1024 2G

Determination of Optimal Soil Moisture Conditions for Grass Stands in the Dry Valleys of the Moscow Oblast (USSR), (In Russian),
W77-12995 1024 2G

Soil Moisture Retention of Soil Profiles, (In Hungarian),
W77-12997 1024 2G

The Use of Calibrated Paper Filters for Measuring to Total Soil Moisture Potential, (In Russian),
W77-12998 1024 2G

SOIL MOISTURE EVAPORATION

On the Role of Soil Moisture Hysteresis in the Suppression of Evaporation from Bare Soil Under Diurnally Cyclic Evaporativity,
W77-04886 1010 2D

SOIL MOISTURE METERS

Radiation Hazard from Americium-Beryllium Neutron Moisture Probes,
W77-01324 1003 2G

Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

An Automatic Scanning Apparatus for Gamma Spectrometry for the Determination of the Moisture Content in Soil Columns, (In Dutch),
W77-09613 1020 2G

Electrical Methods of Determining Soil Moisture Content,
W77-12818 1024 2G

SOIL MOISTURE STRESS

Water Use on Rangelands,
W77-00846 1002 3B

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

SOIL MORPHOLOGY

Gully Wall Stability in Loess-Derived Alluvium,
W77-07764 1016 4D

SOIL NITRATES

Effect of Ploughing and Direct Drilling on Soil Nitrate Content,
W77-00305 1001 2G

SOIL NITRITES

Comments on Nitrate Reduction in Unsaturated Soil,
W77-09650 1020 2G

SOIL ORGANIC MATTER

An Evaluation of Job's Method of Continuous Variations as Applied to Soil Organic Matter-Metal Ion Interactions,
W77-10273 1021 2G

SOIL PH

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

An Improved Technique for Measuring Soil pH,
W77-09295 1019 2G

SOIL PHYSICAL PROPERTIES

Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Soils of the Meshed Tract in Southwestern Turkmen SSR, (In Russian),
W77-00975 1002 2G

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: I. Experimental,
W77-01138 1003 2G

Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

Effects of Phosphorus on Some Physical and Chemical Properties of Clays,
W77-02101 1005 2G

Structural Composition and Some Problems of the Water Regime of Dark-Chestnut Soils of the Kustanai Oblast in Connection with the Duration of their Cultivation, (In Russian),
W77-02853 1006 2G

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

The Effect of Stand Structure on Water Regime of Mountain Soils of the Carpathians, (In Russian),
W77-02923 1006 4A

Physical and Chemical Properties of Takyr Soils and Changes in Their Agrochemical Properties After Irrigation, (In Russian),
W77-02929 1006 3F

Changes in the Physical Properties of Soil Clays Due to Precipitated Aluminum and Iron Hydroxides: I. Swelling and Aggregate Stability After Drying,
W77-03073 1006 2G

Simulation of Pesticide Movement on Small Agricultural Watersheds,
W77-03540 1007 5B

The Influence of Soil Conditioners on the Liquid-Solid Contact Angles of Sands and Silt Loams,
W77-03626 1008 2G

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

Effect of Soil Reclamation on Hydrophysical Properties of Desert Takyr Soils, (In Russian),
W77-04799 1010 2G

Soil Sampling from Experimental Fields, (In Romanian),
W77-05189 1011 2G

Effects of Sewage Sludge and Sludge Compost Applied to Soil on Some Soil Physical and Chemical Properties,
W77-06164 1013 5C

Compressibility and Strength of Compacted Dredgings,
W77-07350 1015 8D

Permeability and Drainage Characteristics of Dredgings,
W77-07351 1015 8D

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Suitability of New England Soils in Accepting Waste Effluents, Phase II,
W77-09064 1018 5E

Scaling Field-Measured Soil Hydraulic Properties Using a Similar Media Concept,
W77-09350 1019 2G

Physical and Hydrophysical Properties of the Soils at the Greenhouse Unit Isalnita-Dolj, (In Rumanian),
W77-09488 1019 2G

Effects of Sodium Sulfate and Sodium Carbonate Solutions on Chemical and Physical Properties of a Chernozem Soil,
W77-11650 1023 2K

Effects of Various Soil Properties and Management Practices on Infrared Scan and Panchromatic Imagery from Portage la Prairie, Manitoba,
W77-12064 1023 2G

Subsoil Chiseling and Slip Plowing Effects on Soil Properties and Wheat Grown on a Stratified Fine Sandy Soil,
W77-12178 1023 2G

Soil Physical Conditions Affecting Rice Root Growth: Bulk Density and Submerged Soil Temperature Regime Effects,
W77-12179 1023 2G

The Effect of Erosion on the Water and Physicochemical Properties of Soil on the Altai Mountain Slopes Near the OB River (USSR), (In Russian),
W77-12543 1024 2J

Miscible Displacement in Soils,
W77-12577 1024 2G

Potential for Saline Water Irrigation of Tropical Soils,
W77-12744 1024 3C

Studies on the Tungabhadra Catchment Soils: II. Physicochemical Properties and Soil Taxonomy,
W77-12879 1024 2G

SOIL PHYSICS

Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

Soil and Rock Strata to Trap, Filter and Store Water for Rural Domestic use,
W77-08821 1018 3B

SOIL-PLANT-WATER RELATIONSHIPS

Soil Irrigation System and Method,
W77-10996 1022 3F

SOIL PORES

A Technique to Index Soil Pores and Aggregates Larger than 20 Micrometers,
W77-08059 1016 2G

SOIL POTASH

Release of Soil Potassium on Wetting and Drying,
W77-11982 1023 2G

SOIL PROFILES

Use of Ammonia Electrode for Determination of Cation Exchange Capacity in Soil Studies,
W77-00300 1001 2G

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

Effect of Degree of Soil Profile Disruption on Plant Growth and Soil Water Extraction,
W77-02286 1005 2G

Nitrate-Nitrogen Removal from Soil Profiles by Alfalfa,
W77-02290 1005 2G

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Infiltration on a Cattle Feedlot,
W77-04625 1010 5B

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

Movement of Carbaryl Through Congaree Soil into Ground Water,
W77-09976 1020 5B

Ortsand: Origin and Diagnostic Value, (In Russian),
W77-11424 1022 2G

Note on Evapotranspiration by Profile-Depletion Method in Deep Vertisol,
W77-11632 1023 2D

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 2. Some Factors Influencing Oxygen Uptakes and Dehydrogenase Activities,
W77-12777 1024 2G

Biochemical Activities in a Soil Profile Under Hard Beech Forest: 3. Some Factors Influencing the Activities of Polyphenol-Oxidising Enzymes,
W77-12778 1024 2G

Soil Moisture Retention of Soil Profiles, (In Hungarian),
W77-12997 1024 2G

SOIL PROPERTIES

Relationships Between Sorption and Desorption of Phosphorus by Soils,
W77-00298 1001 5B

Mild Slope Stable Channels. A Stochastic Design Approach,
W77-00896 1002 2J

Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

Soil Changes Resulting from Cropping,
W77-02284 1005 2G

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

Soil Properties as Parameters Related to Flooding History; The Influence of Lateral and Vertical Accretion of Floodplain Deposits on Soils,
W77-04107 1009 2G

Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
W77-04208 1009 2G

Plant Succession on the Sand Dunes of the Monterey Peninsula, California,
W77-04319 1009 2I

Prediction of Evaporation from Columns of Soil During Alternate Periods of Wetting and Drying,
W77-04764 1010 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Effect of a Secondary Treated Effluent on the Movement of Viruses Through a Cypress Dome Soil,
W77-06173 1013 5B

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Horizon Hydraulic Conductivities Determined In Situ for the Wilderness, Mexico and Menfro Soils and Used to Predict Soil Water Content,
W77-07103 1015 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Predictions of the Soil Water Flux Based Upon Field-Measured Soil-Water Properties,
W77-07772 1016 2G

Effects of Spatial Variability of Soil Hydraulic Properties in Water Budget Modeling,
W77-08825 1018 2G

Infiltration Equations for Simple Soil Systems,
W77-09025 1018 2G

An Improved Technique for Measuring Soil pH,
W77-09295 1019 2G

Potassium Sources and Availability on a Deep, Sandy Soil of East Texas,
W77-09972 1020 2G

Influence of Soil Properties, Leaching Fraction, and Plant Water Uptake on Solute Concentration Distribution,
W77-11222 1022 2G

Hydraulic and Thermal Properties of a Sandy Soil as Influenced by Incorporation of Sewage Sludge,
W77-11236 1022 5B

The Effect of Salinity of Qarun Lake on the Adjacent Soil,
W77-11625 1023 2H

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

Subsoil Chiseling and Slip Plowing Effects on Soil Properties and Wheat Grown on a Stratified Fine Sandy Soil,
W77-12178 1023 2G

SOIL QUALITY

Correlation of Soil Quality Under Different Levels of Agriculture, (In Russian),
W77-12487 1024 2G

SOIL REFLECTIVITY

Effect of Increasing Foliage and Soil Reflectivity on the Yield and Water Use Efficiency of Grain Sorghum,
W77-11951 1023 3F

SOIL RIPPING

Soil Ripping Treatments for Runoff and Erosion Control,
W77-00795 1002 4D

SOIL SALINITY

Influence of Salinity and N-P Fertility Levels on Mineral Content and Growth of Sorghum in Sand Culture,
W77-06094 1012 3C

SOIL SALT MOVEMENT

Model of Salt Flow in Soil with a Source-Sink Term,
W77-07761 1016 2G

SOIL SAMPLING

A Hydraulically Driven Soil Auger for Sampling Fine-Textured and Wet Soils,
W77-03063 1006 2G

SOIL SCIENCE

Soil Water Regimes Near Porous Cup Water Samplers,
W77-05964 1012 2G

SOIL SEALANTS

Soil Sealing Method,
W77-05657 1012 3B

Seepage from Small Earth Dams,
W77-09932 1020 8D

SOIL SEPARATES

Potassium Release from Sand, Silt, and Clay Soil Separates,
W77-10277 1021 2G

SOIL SLIPPAGE

Effect of High Intensity Storms on Soil Slippage on Mountainous Watersheds in Southern California,
W77-05119 1011 4D

SOIL STABILIZATION

Engineering Study and Field Demonstration Trials for Sand Dune Stabilization,
W77-00032 1001 5E

Chemical and Vegetative Stabilization of Soils,
W77-08512 1017 8D

SOIL STRENGTH
Time-Dependent Development of Strength in Dredgings,
W77-05966 1012 5G

Gully Wall Stability in Loess-Derived Alluvium,
W77-07764 1016 4D

Strength of Soil Aggregates: Influence of Size, Density and Clay and Organic Matter Content,
W77-08707 1018 2G

SOIL STRUCTURE
Mulch and Microclimate: The Significance of Mulch and the Change in Temperature Behavior Resulting from It, (In Dutch),
W77-01447 1003 2G

Structural Composition and Some Problems of the Water Regime of Dark-Chestnut Soils of the Kustanai Oblast in Connection with the Duration of their Cultivation, (In Russian),
W77-02853 1006 2G

Effect of Moisture Content on Soil Consistency,
W77-03631 1008 2G

The Effect of Cultivation on the Wind-Borne Sand Sediments in Egypt,
W77-04316 1009 2G

Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

A Technique to Index Soil Pores and Aggregates Larger than 20 Micrometers,
W77-08059 1016 2G

Effects of Various Soil Properties and Management Practices on Infrared Scan and Panchromatic Imagery from Portage la Prairie, Manitoba,
W77-12064 1023 2G

SOIL SUBMERGENCE
Corn Yield and Nutrient Uptake as Affected by Water-Table Depth and Soil Submergence,
W77-06095 1012 3F

SOIL SUCTION
Influence of Hysteresis on Moisture Flow in an Undisturbed Soil Monolith,
W77-01323 1003 2G

SOIL SURFACES
Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

Soil Surface Sealing Caused by Rain Drop Impact,
W77-11107 1022 2G

Calculating Potential and Actual Evaporation from a Bare Soil Surface by Simulation of Concurrent Flow of Water and Heat,
W77-11120 1022 2D

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

SOIL SURVEY
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

SOIL SURVEYS
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

LANDSAT-1 Data, Its Use in a Soil Survey Program,
W77-08414 1017 2G

Delineation of the Boundaries of a Buried Pre-Glacial Valley with LANDSAT-1 Data,
W77-08415 1017 2G

SOIL SWELLING
Transition of Chemical Elements into Water Extracts from Soils with Different Mineralogical Compositions, (In Russian),
W77-12579 1024 2G

SOIL TEMPERATURE
Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

Soil Warming with Power Plant Waste Heat in Greenhouses,
W77-02526 1005 5G

Influence of Temperature Regimes and Water Stress on the Germination of Three Range Grasses and its Possible Ecological Significance to a Shortgrass Prairie,
W77-04313 1009 3F

The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

Summer Moisture-Temperature for Arctic Tundra,
W77-05185 1011 2C

Moisture and Temperature of Soil in Different Sites of a Fir Stand, (In Italian),
W77-06466 1013 2G

Comparison of Field-Measured and Calculated Soil-Heat Fluxes,
W77-09433 1019 2G

Soil Temperatures and Heat Loss for a Hot Pipe Network Buried in Irrigated Soil,
W77-09654 1020 5D

Use of Geothermal Brackish Water for Soil Warming and Vegetable Irrigation,
W77-11066 1022 3C

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

Fall Soil Water: Effect on Summer Soil Temperature,
W77-11238 1022 2G

SOIL TESTS
Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

A Hydraulically Driven Soil Auger for Sampling Fine-Textured and Wet Soils,
W77-03063 1006 2G

A Device for Isolating Field Soil Columns with Minimum Disturbance,
W77-03065 1006 2G

A Compaction Apparatus for the Preparation of Soil Cores of Different Bulk Densities and Thicknesses,
W77-03067 1006 2G

A Technique for Installing Induction Coils in a Profile with Minimum Soil Disturbance,
W77-03069 1006 2G

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

Compressibility and Strength of Compacted Dredgings,
W77-07350 1015 8D

Permeability and Drainage Characteristics of Dredgings,
W77-07351 1015 8D

Soil Testing for Sludge Disposal.
W77-08728 1018 5E

Cation-Exchange Capacity of Acid Soils Using Aluminum Chloride and Barium Chloride-Triethanolamine,
W77-09652 1020 2G

A Technique to Determine Iron Efficiency in Plants,
W77-10280 1021 2G

SOIL TEXTURAL LAYERS

Simulation of Soil Water Dynamics in Layered Soils,
W77-05362 1011 2G

SOIL TEXTURE

Variations in Picloram Leaching Patterns for Several Soils,
W77-00476 1001 2G

Simulation of Soil Water Dynamics in Layered Soils,
W77-05362 1011 2G

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

Nitrate Leakage from Soils Differing in Texture and Nitrogen Load,
W77-09428 1019 2G

Methylation of Mercury in Agricultural Soils,
W77-09447 1019 2G

Physical and Hydrophysical Properties of the Soils at the Greenhouse Unit Isalnita-Dolj, (In Rumanian),
W77-09488 1019 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

Effects of Various Soil Properties and Management Practices on Infrared Scan and Panchromatic Imagery from Portage la Prairie, Manitoba,
W77-12064 1023 2G

Correlation of Soil Quality Under Different Levels of Agriculture, (In Russian),
W77-12487 1024 2G

SOIL THICKNESS

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

SOIL TOXICITY

Conditions of the Emergence of Soil Toxicity During Application of Straw and Flooding, (In Russian),
W77-12983 1024 2G

SOIL TREATMENT

Mulch and Microclimate: The Significance of Mulch and the Change in Temperature Behavior Resulting from It, (In Dutch),
W77-01447 1003 2G

Amelioration of Subsurface Acidity by Leaching of Surface Applied Amendments. A Laboratory Study,
W77-01483 1003 2G

Chromium and Mercury in a Soil After 80 Years of Treatment with Urban Sewage Water, (In German),
W77-01568 1004 2K

Laboratory Testing of Water-Repellent Soil Treatments for Water Harvesting,
W77-01621 1004 4D

Soil Sampling from Experimental Fields, (In Romanian),
W77-05189 1011 2G

Effects of Sewage Sludge Composition, Application Rate, and Lime Regime on Plant Availability of Heavy Metals,
W77-06175 1013 5C

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

Effect of Pretreatment on Loss of Nitrogen-15-Labelled Fertilizer Nitrogen from Waterlogged Soil During Incubation,
W77-09643 1020 2G

New Soil Implement Makes a Good Impression,
W77-11096 1022 3F

Evaluating Weathering Characteristics of Water-Harvesting Catchments from Rainfall-Runoff Analyses,
W77-11612 1023 3B

Water Repeliency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

Preliminary Study on Some Saline Soils of Peru Using a Hydrophobic Emulsion,
W77-12044 1023 3C

Transition of Chemical Elements into Water Extracts from Soils with Different Mineralogical Compositions, (In Russian),
W77-12579 1024 2G

SOIL TYPES

Introduction to Symposium on Gas and Leachate from Landfills: Formation, Collection, and Treatment,
W77-02395 1005 5E

Attenuation Mechanisms of Pollutants Through Soils,
W77-02408 1005 5B

Erosion of Selected Hawaii Soils by Simulated Rainfall,
W77-04251 1009 2J

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Effect of a Secondary Treated Effluent on the Movement of Viruses Through a Cypress Dome Soil,
W77-06173 1013 5B

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Nutrient Removal and Sludge Disposal Within Septic Systems-Phase III,
W77-06686 1014 5D

A Laboratory Study of Fluid and Soil Mechanics Processes During Hydraulic Dredging (Hydraulische und Bodentechnische Vorgange beim Grundsaugen),
W77-06883 1014 8D

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur Lake Drainage Basin, Appendix I-12,
W77-07617 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Klamath Drainage Basin, Appendix I-14,
W77-07619 1016 2G

Oregon's Long-Range Requirements for Water, General Soil Map Report with Irrigable Areas, Rogue Drainage Basin, Appendix I-15,
W77-07620 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

Effects of Trace Elements on Nitrogen Mineralization in Soils,
W77-07864 1016 5B

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

Effects of Anaerobically Digested Sewage Sludge on Organic Matter in Soil and Soil Water,
W77-09598 1019 5C

Nutrient Uptake by Corn and Grain Sorghum Silage as Affected by Soil Type, Planting Date, and Moisture Regime,
W77-11948 1023 3F

Interaction of Climate, Organic Material and Stuctural Stability in Muddy Soils, (In French),
W77-12470 1024 2G

SOIL WARMING

Soil Warming with Power Plant Waste Heat in Greenhouses,
W77-02526 1005 5G

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

SOIL WATER

A Procedure for the Sampling and Testing of Large Soil Cores,
W77-00286 1001 2G

Factors Affecting Spring Runoff on Two Forested Watersheds,
W77-00374 1001 2E

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

Soil Water Content and Evaporation Determined by Thermal Parameters Obtained from Ground-Based and Remote Measurements,
W77-01618 1004 2G

Relative Importance of Soil Resistance and Plant Resistance in Root Water Absorption,
W77-02118 1005 2D

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

Nitrogen in the Soil Water of the Ecosystem of the Amazonian Prairies, (In Portugese),
W77-02239 1005 5B

Drainage of Vertical Columns of Lakeland Sand,
W77-02510 1005 2G

The Effect of Stand Structure on Water Regime of Mountain Soils of the Carpathians, (In Russian),
W77-02923 1006 4A

Soil Water Extraction by Alfalfa,
W77-03064 1006 3C

Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

Effects of Soil-Moisture Regimes on the Growth of Barley,
W77-03216 1007 3F

Simulation of Field Water Uptake by Plants Using a Soil Water Dependent Root Extraction Function,
W77-03315 1007 2G

Effects of Liquid-Phase Electrical Conductivity, Water Content, and Surface Conductivity on Bulk Soil Electrical Conductivity,
W77-04250 1009 2G

Soil Water Deficits Under Forested and Clearcut Areas in Northern Arkansas,
W77-04254 1009 2G

Influence of Temperature Regimes and Water Stress on the Germination of Three Range Grasses and its Possible Ecological Significance to a Shortgrass Prairie,
W77-04313 1009 3F

Soil Water Availability in an Arizona Mixed Conifer Clearcutting,
W77-05121 1011 4D

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

The Application of the Overburden Potential Theory to Swelling Soils,
W77-05167 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: II. Effect of Plant Growth on Soil Water Pressure and Water Loss Patterns,
W77-05199 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: III, Rooting Characteristics and Root Extraction of Soil Water,
W77-05200 1011 2G

Changes in the Quality of Soil Water for Three Years Following Burning,
W77-05212 1011 4C

The Concise Formulation of Diffusive Sorption of Water in a Dry Soil,
W77-05340 1011 2G

A Perturbation Solution for a Nonlinear Diffusion Equation,
W77-05343 1011 2G

Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

Time-Dependent Linearized Infiltration: III. Strip and Disc Sources,
W77-06011 1012 3F

Salinity and Waterlogging in the Near-East Region,
W77-06244 1013 3C

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Investigations on the Humidity and Infiltration Relations in Soils with Different Subsoil Water Conditions with and Without Crops, (In German),
W77-06541 1013 2G

Horizon Hydraulic Conductivities Determined In Situ for the Wilderness, Mexico and Menfro Soils and Used to Predict Soil Water Content,
W77-07103 1015 2G

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Soil Air Pressure Effects on Route and Rate of Infiltration,
W77-09293 1019 2G

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

Evaluation of an Evapotranspiration Model for Corn,
W77-09941 1020 2D

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

Ammonia Volatilization from Surface Applications of Ammonium Compounds on Calcareous Soils: V. Soil Water Content and Method of Nitrogen Application,
W77-09960 1020 2G

Extraction of Soil Water Using Cellulose-Acetate Hollow Fibers,
W77-09967 1020 2G

Scientific Bases of a System for Averting Unfavorable Consequences of Steppe Soil Irrigation, (In Russian),
W77-10021 1020 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Response of Dryland Wheat to Phosphorus Fertilizer as Influenced by Profile Water Storage and Rainfall,
W77-11093 1022 3F

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

Assessment of Water Loss Patterns with Microlysimeters,
W77-11115 1022 2D

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Hysteretic Steady State Soil Water Profiles,
W77-11212 1022 2G

Modeling Soil Water Hydrology Under A Post Oak (Quercus Stellata Wangenh.) - Shortleaf Pine (Pinus Echinata Mill.) Stand in East Texas,
W77-11228 1022 2G

Model Calculations for the Extraction of Soil Water by Ceramic Cups and Plates,
W77-11230 1022 2G

A Comparison of In Situ Extractors for Sampling Soil Water,
W77-11235 1022 2G

Fall Soil Water: Effect on Summer Soil Temperature,
W77-11238 1022 2G

Water Transport from Roots to Soil,
W77-11391 1022 2G

Comparison of the Results of an Experimental Study on the Soil Water System Using Computer Analysis, (In Russian),
W77-11392 1022 2G

Soil Solution Concentrations: Effect of Extraction Time Using Porous Ceramic Cups Under Constant Tension,
W77-11397 1022 2G

Anatomical Response of Potato Stems and Roots to Soil Moisture and Rates of Fertilizer,
W77-11398 1022 3F

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Ion Activity Products of Calcium Carbonate In Waters Below the Root Zone,
W77-11438 1022 2K

Infiltration and Redistribution of Water in Soils, (In Dutch),
W77-11471 1022 2G

A Method for the Simultaneous Control of the Water Regime and Gaseous Atmosphere in Soil Columns,
W77-11614 1023 2G

A Modified Mercury Tensiometer,
W77-11615 1023 2G

Soil Water Modeling II: On Sensitivity to Finite Difference Grid Spacing,
W77-11795 1023 2G

Diurnal Soil Water Regime in the Tilled Plow Layer of a Warm, Humid Climate,
W77-11826 1023 2G

Nutrient Uptake by Corn and Grain Sorghum Silage as Affected by Soil Type, Planting Date, and Moisture Regime,
W77-11948 1023 3F

Evaluation of Porcelain Cup Soil Water Samplers for Bacteriological Sampling,
W77-11968 1023 5A

Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-11996 1023 2G

All-Plastic Suction Lysimeters for the Rapid Sampling of Percolating Soil Water,
W77-12005 1023 5A

Extended Field Use of Screen-Covered Thermocouple Psychrometers,
W77-12116 1023 2G

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

High-Frequency Trickle Irrigation and Row Spacing Effects on Yield and Quality of Potatoes,
W77-12533 1024 3F

Experimental Study and Numerical Simulation of the Subsoil Water Environment, (In French),
W77-12572 1024 2G

Effects of Irrigation Leaching Management on River and Soil Water Salinity,
W77-12751 1024 3C

The Unsteady Groundwater Mound Below an Irrigation Ditch or Leaky Canal,
W77-12801 1024 2G

Numerical Analysis of Two-Dimensional Infiltration and Redistribution,
W77-12806 1024 2G

Hydrothermal State of Peat-Boggy Soils in the Extreme North, (In Russian),
W77-12890 1024 2G

Effects of the Coarse Constituents on Water Flow in a Sandy Soil, (In French),
W77-12896 1024 2G

SOIL WATER DEPLETION

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: II. Effect of Plant Growth on Soil Water Pressure and Water Loss Patterns,
W77-05199 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: III, Rooting Characteristics and Root Extraction of Soil Water,
W77-05200 1011 2G

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

SOIL WATER DIFFUSIVITY

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

SOIL WATER FERTILIZERS

The Natural Abundance of N15 in the Soil-Water System of a Small Catchment Area,
W77-11081 1022 2G

SOIL WATER FLUX

Predictions of the Soil Water Flux Based Upon Field-Measured Soil-Water Properties,
W77-07772 1016 2G

SOIL WATER MOVEMENT

Effects of Sewage Sludge or Effluent Application to Soil on the Movement of Nitrogen, Phosphorus, Soluble Salts and Trace Elements to Groundwaters,
W77-00029 1001 5C

Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Water Permeability of Dark-Chestnut Soils of the Kustanai Oblast, (In Russian),
W77-00501 1001 2G

Hydraulic Functions of Soils from Physical Experiments and their Applications,
W77-00667 1002 2G

Percolation of Surface-Applied Water in the Field,
W77-01137 1003 2G

Coupling Phenomena in Saturated Homo-Ionic Montmorillonite: I. Experimental,
W77-01138 1003 2G

Water Transport in the Soil-Root System: Transient Analysis,
W77-01147 1003 2G

Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

Analytical Solutions of a Simplified Flow Equation,
W77-01624 1004 2G

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Simulation of Root-Zone Water and Deep Seepage to a Water Table,
W77-02295 1005 2G

On the Validity of the Theory of Flow in Saturated Swelling Materials,
W77-03280 1007 2G

Infiltration and Water Movement in an in Situ Swelling Soil During Prolonged Ponding,
W77-03281 1007 2G

Prediction of Water Transmission in Conditioned Soils,
W77-03451 1007 2G

The Influence of Soil Conditioners on the Liquid-Solid Contact Angles of Sands and Silt Loams,
W77-03626 1008 2G

A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

Radial Movement of Saturated Zone Under Constant Flux: Theory and Application to the Determination of Soil-Water Diffusivity,
W77-04249 1009 2G

Leaching of Saline Soils in Monoliths of Iraq,
W77-04324 1009 2G

Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

The Different Forms of Moisture Profile Development During the Redistribution of Soil Water After Infiltration,
W77-04749 1010 2G

Movement of Water and Nitrate in an Unsaturated Aggregated Soil During Nonsteady Infiltration--A Simplified Solution for Solute Flow,
W77-04769 1010 5B

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

Soil Water Movement: Infiltration, Redistribution, and Groundwater Movement,
W77-04776 1010 2G

Evapotranspiration--Some Growth Areas,
W77-04777 1010 2D

Distributions of Water and Herbicide in Lakeland Sand During Initial Stages of Infiltration,
W77-05180 1011 5B

Derivation of Equations for Rainfall Infiltration,
W77-05182 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: II. Effect of Plant Growth on Soil Water Pressure and Water Loss Patterns,
W77-05199 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: III, Rooting Characteristics and Root Extraction of Soil Water,
W77-05200 1011 2G

Flow in a Soil Layer Underlined by an Impermeable Membrane,
W77-05361 1011 2G

Simulation of Soil Water Dynamics in Layered Soils,
W77-05362 1011 2G

Experimental Study of Wetting front Instability Induced by Sudden Change of Pressure Gradient,
W77-05433 1011 2G

A Method for Computing and Comparing Upward Flow of Water in Soils From a Water Table Using the Flux/Unsaturated Conductivity Ratio,
W77-05533 1011 2G

Influence of Soil Bulk Density on Horizontal Water Infiltration,
W77-05535 1011 2G

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

Soil Water Regimes Near Porous Cup Water Samplers,
W77-05964 1012 2G

On Solving the Nonlinear Diffusion Equation: A Comparison of Perturbation, Iterative, and Optimal Techniques for an Arbitrary Diffusivity,
W77-05969 1012 2G

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Final Report on Fertilizer Movement Through Soil Resulting from Rainfall,
W77-06096 1012 5B

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Suprapermafrost Water,
W77-06630 1014 2C

Solution of Equation for Two-Dimensional Infiltration Problems,
W77-07142 1015 2G

Suction Head at Wet Front in Unsaturated-Flow Problems--A New Definition,
W77-07144 1015 2G

Water Flux in Soil and Subsoil on a Steep Forested Slope,
W77-07147 1015 2G

Transport of Reactive Solutes Through Multilayered Soils,
W77-07758 1016 2G

Solute Movement in a Field Soil,
W77-07759 1016 2G

Predictions of the Soil Water Flux Based Upon Field-Measured Soil-Water Properties,
W77-07772 1016 2G

Root Growth, Strength, and Chemical Properties of a Hobson Fragipan,
W77-08285 1017 2G

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Flow Characteristics During Infiltration into a Horizontal Sand Column,
W77-08826 1018 2G

Infiltration Equations for Simple Soil Systems,
W77-09025 1018 2G

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

Comments on the Mechanism of Soil Detachment by Rainfall,
W77-09313 1019 2G

Nitrate-Nitrogen Movement Through Soil as Affected by Soil Profile Characteristics,
W77-09427 1019 5B

Use of the Green-Ampt Equation with Variable Conductivity,
W77-09430 1019 2G

On the Physical Interpretation of the Soil Water Diffusivity in Terms of the Theory of Markov Processes,
W77-09594 1019 2G

Determination of Hydraulic Parameters to Estimate Water Movement and Water Storage in Undisturbed Soil: Comparison of Field and Laboratory Methods, (In German),
W77-09624 1020 2G

Degradation of a Nonionic Surfactant in Soils and Peat,
W77-09638 1020 5B

Simultaneous Transport of Nitrate and Gaseous Denitrification Products in Soil,
W77-09653 1020 5B

Relation of Climate to Leaching of Solutes and Pollutants Through Soils,
W77-10187 1021 5B

The Resistance of Intact Maize Roots to Water Flow,
W77-10271 1021 2G

Laterally Confined, Steady Flows of Water from Sources and to Sinks in Unsaturated Soils,
W77-10311 1021 2G

Contribution of Lateral Soil Water Movement Above a Fragipan to Streamflow,
W77-10312 1021 2G

Water Movement Through Pedal Soils: I. Saturated Flow,
W77-10313 1021 2G

Water Movement Through Pedal Soils II. Unsaturated Flow,
W77-10314 1021 2G

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Hysteretic Steady State Soil Water Profiles,
W77-11212 1022 2G

Influence of Soil Properties, Leaching Fraction, and Plant Water Uptake on Solute Concentration Distribution,
W77-11222 1022 2G

Model Calculations for the Extraction of Soil Water by Ceramic Cups and Plates,
W77-11230 1022 2G

Evaluation of Theoretically Predicted Thermal Conductivities of Soils Under Field and Laboratory Conditions,
W77-11611 1023 2G

Soil Water Modeling II: On Sensitivity to Finite Difference Grid Spacing,
W77-11795 1023 2G

Ground Water Recharge in Western Uttar Pradesh,
W77-11932 1023 4B

Solution of the One-Dimensional Linear Moisture Flow Equation with Implicit Water Extraction Functions,
W77-12170 1023 2G

Modeling Soil Water Movement for Trickle Irrigation - Phase II,
W77-12256 1024 2G

Use of Salt Waters for Reducing ESP in Heavy-Textured Alkali Soils,
W77-12281 1024 3C

Seasonal Use of Soil Water by Mature Velvet Mesquite,
W77-12283 1024 3B

Irrigation of a Saline-Sodic Site in the Sudan Gezira. I-Water Movement,
W77-12285 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

Soil Water Movement During the First Stage of Drying of a Moist, Sandy Soil Under a Very Low Drying Rate,
W77-12314 1024 2G

Evapotranspiration and Soil Water Movement Beneath the Root Zone of Irrigated and Nonirrigated Millet (Panicum Miliaceum),
W77-12315 1024 2D

Miscible Displacement in Soils,
W77-12577 1024 2G

Solutions to Green-Ampt Infiltration Equation,
W77-12578 1024 2G

The Hydraulic Resistance of Subsurface Drains as Influenced by Certain Filter Materials,
W77-12835 1024 4A

SOIL-WATER-PLANT RELATIONSHIPS

Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Effect of Dehydration and Elevated Temperature on Leaf Cell Thermoresistance of a Drought-Sensitive Barley Cultivar, (In Russian),
W77-00503 1001 2I

Method of Simultaneous Determination of Water Conductivity of Soils and Plants, (In Russian),
W77-00512 1001 2I

Water Use on Rangelands,
W77-00846 1002 3B

Soil Nitrate Loss During Irrigation: Enhancement by Plant Roots,
W77-01268 1003 3F

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

Leaf Water Potential and Stomatal Activity in Sorghum as Influenced by Soil Moisture Stress,
W77-01276 1003 2I

Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

Soil-Water-Plant Relationships - Important Design Criteria for Irrigation-Planning, (Grond-Plant-Waterverhoudings as belangrike ontwerpgegewens vir besproeiingsbeplanning),
W77-01454 1003 3C

The Influence of Soil Moisture After Planting on the Growth and Differentiation of the Pedunculate Oak (Quercus Pedunculata Ehrh. Var. Tardiflora Czer, (In Bulgarian),
W77-01498 1003 2I

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

The Movement of Snow-Water Through Small Plant-Soil Systems in the Medicine Bow Mountains, Wyoming,
W77-01812 1004 2D

Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Relative Importance of Soil Resistance and Plant Resistance in Root Water Absorption,
W77-02118 1005 2D

The Productiveness of Loess Soils of Different Degrees of Erosion, (In German),
W77-02891 1006 3F

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Effect of Water Stress on the Phasic Development of Annual Medicago Species,
W77-03136 1007 2I

Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

Simulation of Field Water Uptake by Plants Using a Soil Water Dependent Root Extraction Function,
W77-03315 1007 2G

Moisture Use Efficiency of Dryland Crops as Influenced by Fertilizer Use, III. Oilseed Crops,
W77-03634 1008 3F

Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Evapotranspiration--Some Growth Areas,
W77-04777 1010 2D

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Water Use and Productivity of Wheat Under Five Irrigation Treatments,
W77-05221 1011 3F

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Soil-Moisture Stress as Related to Plant-Moisture Stress in Big Sagebrush,
W77-08751 1018 2G

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

Influence of Indeterminate Growth Habit on Yield and Irrigation Water-Use Efficiency in Upland Cotton,
W77-09306 1019 3F

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

Automatic Feedback Control to Maintain Constant Soil Moisture Tension in the Study of Drought Tolerance in Rice,
W77-11229 1022 2G

Moisture Relationships in Twelve Northern Desert Shrub Communities Near Grand Junction, Colorado,
W77-11384 1022 2D

Water Stress and Phenology in Wheat,
W77-11427 1022 3F

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Some Characteristics of Soil Crusts in Calcareous Soil,
W77-11626 1023 2G

Water Repeliency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Biological Control of Water Pollution.
W77-11690 1023 5G

Experimental Use of Emergent Vegetation for the Biological Treatment of Municipal Wastewater in Wisconsin,
W77-11691 1023 5G

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

Macrophytes and Water Purification,
W77-11694 1023 5G

The Purification of Wastewater with the Aid of Rush or Reed Ponds,
W77-11695 1023 5G

Sludge Handling.
W77-11710 1023 5E

Sewage Sludge for Agricultural Use,
W77-11748 1023 5E

Effect of Irrigation and Fertilizer on Yield and Quality of Seed Cotton (Gossypium Hirsutum L.) in Western Rajasthan,
W77-11989 1023 3F

Yield and Moisture Use Pattern of Rabi Crops Grown Under Rainfed Conditions of Eastern U.P.,
W77-11992 1023 3F

A Note on the Irrigation and Fertility Levels on the Yield and Nutrient Uptake of Dwarf Barley Cultivar RDB-1,
W77-12002 1023 3F

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

Bacterial and Viral Pathogens Associated with Land Application of Organic Wastes,
W77-12445 1024 5E

Experimental Study and Numerical Simulation of the Subsoil Water Environment, (In French),
W77-12572 1024 2G

SOIL WATER POTENTIAL

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

SOIL WATER STORAGE

Low Flow Modeling in Small Steep Watersheds,
W77-03316 1007 4D

Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

SOIL WATER TENSIONS

Interactions of Beef Cattle Wastes with Soil,
W77-01539 1003 5B

SOILID WASTES

Introduction to Symposium on Gas and Leachate from Landfills: Formation, Collection, and Treatment,
W77-02395 1005 5E

SOILS

Geologic Nitrogen in Pleistocene Loess in Nebraska,
W77-00366 1001 5B

Mechanism of Interaction of Weakly Mineralized Irrigation Water with Soil, (In Russian),
W77-00524 1001 2G

Techniques of Researching Information for the Development of a Manual to Vegetate Soils of Low Productivity Disturbed by Construction Activities,
W77-00805 1002 4D

Percolation of Surface-Applied Water in the Field,
W77-01137 1003 2G

Rating of Irrigated Soils of the Sal'yan Region, (In Russian),
W77-01208 1003 2G

Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: I. Thermal Effects,
W77-01327 1003 2G

Heat and Water Movement under Surface Rocks in a Field Soil: II. Moisture Effects,
W77-01328 1003 2G

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

Leachate Attenuation in Undisturbed and Remoulded Soils,
W77-02403 1005 5B

Studies on Soil Consistency: I. Comprehensive Investigations of the Consistency, (In Japanese),
W77-02888 1006 2G

Determination of the Critical Depth for Bagaevsko-Sadki Irrigation System, (In Russian),
W77-02928 1006 3F

Annual Dynamics of Soluble Salts in the Soils of an Irrigated Field with Both Deep Closed and Open Drainage at the Bagaevsko-Sadkovskaya Irrigation System, (In Russian),
W77-02930 1006 3F

Measurement of Nonexchanging Pores During Miscible Displacement in Soils,
W77-03320 1007 2G

Calibration of Neutron Probe in Some Selected Hawaiian Soils,
W77-03321 1007 2G

Prediction of Water Transmission in Conditioned Soils,
W77-03451 1007 2G

Weed Control and the Environment, (In French),
W77-04041 1008 5B

Research Pertaining to Determination of ATP in Soils and Subsurface Formations,
W77-04154 1009 5A

Effects of Liquid-Phase Electrical Conductivity, Water Content, and Surface Conductivity on Bulk Soil Electrical Conductivity,
W77-04250 1009 2G

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

Prediction of Evaporation from Columns of Soil During Alternate Periods of Wetting and Drying,
W77-04764 1010 2G

Predicting Specific Conductance and Salt Concentration in Dilute Aqueous Solutions,
W77-04765 1010 2G

Evaluation of the Optimal Thickness of Soil Between Source and Detector in the Gamma-Ray Transmission Method,
W77-05151 1011 2G

The Application of the Overburden Potential Theory to Swelling Soils,
W77-05167 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Rapid Determination of Unsaturated Hydraulic Conductivity in Tilled and Untilled Loess Soil,
W77-05352 1011 2G

Soils Information for Coastal Georgia,
W77-05398 1011 2L

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

Predicting Particle-Size Composition of Eroded Soil,
W77-05439 1011 2J

Soil Moisture: Some Fundamentals,
W77-05815 1012 2G

Soils of the Tedzen-Hurghab Interfluvial Area, (In Russian),
W77-05960 1012 2G

Experimental and Simulated Transport of Phosphorus Through Sandy Soils,
W77-06015 1012 5B

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

Phosphates in Soils Treated with Sewage Water: I. General Information on Sewage Farm, Soil, and Treatment Results,
W77-07052 1014 5G

Solubility and Plant Uptake of Cadmium in Soils Amended with Cadmium and Sewage Sludge,
W77-07055 1014 5B

Heterotrophic Nitrification in Soils and Aquatic Environments, (In Russian),
W77-07754 1016 5C

Establishing Soil Electrical Conductivity-Salinity Calibrations Using Four-Electrode Cells Containing Undisturbed Soil Cores,
W77-07776 1016 2G

Scaling Field-Measured Soil Hydraulic Properties Using a Similar Media Concept,
W77-09350 1019 2G

Vertical Infiltration in Dry Soil,
W77-09351 1019 2G

Lacustrine Sediments in the Allegheny Plateau of Erie County, New York: Their Characteristics, Distribution, and Land Use Problems,
W77-09357 1019 2J

Mass Balance Monitoring of Land Application Sites for Wastewater Residuals,
W77-10326 1021 5B

Water Retention in Soil Underlain by a Coarse-Textured Layer: Theory and a Field Application,
W77-10977 1022 2G

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

Erodibility of Some Minnesota Soils,
W77-12317 1024 2J

SOLAR COLLECTORS

Here Comes the Sun.
W77-10518 1021 8C

SOLAR DISTILLATION

Solar Distillation in Chile,
W77-02862 1006 3A

Solar Distillation in India,
W77-11087 1022 3A

Solar Energy Utilization for Arid Zone Development,
W77-11090 1022 3A

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

Systems for Solar Distillation,
W77-11618 1023 3A

SOLAR ENERGY

Water Requirements for Solar Energy,
W77-02122 1005 3E

Getting Water from the Sun,
W77-05937 1012 3F

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

Feasibility of Using Solar Energy to Drive Irrigation Pumps,
W77-12513 1024 3F

SOLAR EVAPORATION

Processing of Industrial Waste for Solar Evaporation,
W77-10337 1021 5D

SOLAR PONDS

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

SOLAR RADIATION

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Suspended Sediment, Solar Radiation and Heat in Agricultural Reservoirs,
W77-00809 1002 2J

Water Requirements for Solar Energy,
W77-02122 1005 3E

Solar Sewage Plant 75% Energy Self-Sufficient.
W77-02354 1005 5D

The Role of Solar Ultraviolet Radiation in 'Natural' Water Purification,
W77-02552 1005 5D

Utilization of Energy by Primary Producers in Four Ponds in Northwestern Florida,
W77-04165 1009 5C

Computation of Solar Radiation From Sky Cover,
W77-04772 1010 2B

A Model for Oxygen and Biomass Production in A Mass Algal Culture,
W77-04998 1010 5D

Brace Research Institute, Annual Report, (1976),
W77-07242 1015 3A

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Ground Water - Solar Heat,
W77-08652 1018 8C

An Evaluation of Total Solar Reflectance and Spectral Band Ratioing Techniques for Estimating Soil Water Content,
W77-09957 1020 2G

Winter and Summer Insolation Patterns for Southern Africa,
W77-10195 1021 2B

Use of an Airborne Fraunhofer Line Discriminator for the Detection of Solar Stimulated Luminescence,
W77-10869 1022 2K

Design and Performance of a Simple Solar Pump for Lift Irrigation Purposes,
W77-11086 1022 3F

Solar Distillation in India,
W77-11087 1022 3A

Solar Energy Utilization for Arid Zone Development,
W77-11090 1022 3A

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Development of a Solar Pump for Lift Irrigation Purposes,
W77-11428 1022 3F

Feasibility of Introducing Solar-Powered Irrigation on a Representative Arizona Farm,
W77-11440 1022 3F

Systems for Solar Distillation,
W77-11618 1023 3A

Algorithm for Solar Radiation on Mountain Slopes,
W77-12135 1023 7B

Feasibility of Using Solar Energy to Drive Irrigation Pumps,
W77-12513 1024 3F

SOLAR STILLS

Solar Distillation in Chile,
W77-02862 1006 3A

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

Systems for Solar Distillation,
W77-11618 1023 3A

SOLE

Laboratory Rearing of Common Sole (Solea Solea L.) Under Controlled Conditions at High Density with Low Mortality,
W77-04528 1009 5C

SOLEA-LASCARIS-NASUTA

Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

SOLEA SOLEA (EGGS)

The Distribution and Mortality of Sole Eggs (Solea Solea L.) in Inshore Areas,
W77-05824 1012 2L

SOLID-LIQUID SEPARATION

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

SOLID WASTE ACT

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

SOLID WASTE MANAGEMENT

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

SOLID WASTES

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

Urban Solid Wastes Engineering,
W77-01379 1003 5E

Improved Anaerobic Digestion of Solid Urban Waste,
W77-01462 1003 5D

The Energy Potential of Municipal Solid Wastes in South Africa,
W77-01463 1003 3D

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Gas and Leachate from Landfills: Formation, Collection, and Treatment. Proceedings of a Research Symposium.
W77-02394 1005 5E

Current EPA Research Activities in Solid Waste Management,
W77-02396 1005 5E

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

Solid Waste Degradation Due to Shredding and Sludge Addition,
W77-02412 1005 5E

Wastewater Requirements Multiply Solids Problems,
W77-02601 1006 5G

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues.
W77-03403 1007 5D

Minimizing the Waste Discharges from Water Treatment Plants,
W77-03455 1007 5D

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

Generation of Leachate from Landfills and Its Subsurface Movement,
W77-04134 1009 5B

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

Farm Waste Composting Process.
W77-04619 1010 5B

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Drying Potato Wastes for Animal Feed as an Alternative Disposal Method.
W77-06947 1014 5D

Composting of Sewage Sludge and Solid Waste Matter,
W77-07084 1014 5D

Evaluation of Alternate Solids Handling Methods for Advanced Waste Treatment,
W77-07902 1016 5D

Breaking Down Solid and Liquid Waste to Form a Fertilizer--By Inoculation with Selected Fungi and Fermentation.
W77-08559 1017 5E

Screening Apparatus for Removal of Solids--from Sewage with Rotating Screen and Vertical Lift for Residues.
W77-08562 1017 5D

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Package Aeration Plants.
W77-09588 1019 5D

Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

Combined Processing of Wastewater and Solid Waste,
W77-10625 1021 5D

Let's Talk Rubbish Part 3: Litter,
W77-11545 1023 5B

Possibilities of Waste Recycling in South Africa - Choices and Conflicts,
W77-11551 1023 5D

Possibilities of Waste Recycling in South Africa - II,
W77-11552 1023 5D

Process for Treating Municipal Wastes to Produce a Fuel,
W77-12940 1024 5E

SOLIDS CONTACT PROCESSES

Advanced Waste Treatment Seminar, Session III, Removal of Solids and Organics, Held at San Francisco, on October 28-29, 1970.
W77-07074 1014 5D

Evaluation of Alternate Solids Handling Methods for Advanced Waste Treatment,
W77-07902 1016 5D

SOLIFLUCTION

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

SOLIMOES RIVER

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

SOLONCHAKS

Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
W77-00511 1001 2G

SOLUBILITY

Surfactant Structure and Aquatic Toxicity,
W77-01311 1003 5A

Solubility of Oxygen in Water, Saturation Values for Fresh Water and Mixtures of Fresh and Sea Water,
W77-04864 1010 5B

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

Solubility and Plant Uptake of Cadmium in Soils Amended with Cadmium and Sewage Sludge,
W77-07055 1014 5B

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

Solubility and Solubility Product of Dicalcium Phosphate Dihydrate in Aqueous Solutions and Soil Solutions,
W77-09979 1020 2G

SOLUBILITY EQUATIONS

The Solubility of Nitrogen, Oxygen and Argon in Water and Seawater,
W77-06923 1014 5C

SOLUBILITY INDEX (POLLUTANTS)

Concerning the Article of S. D. Zaugol'nikov, M. M. Kochanov, A. O. Liot and I. I. Stavchanskii, 'Forecasting the Hazard of Organic Compounds in the Environment', (In Russian),
W77-06195 1013 5A

SOLUBLE METALS WASTE REMOVAL

Removing Soluble Metals from Waste Water,
W77-08591 1017 5D

SOLUBLE ORGANIC PHOSPHORUS

Cycling of Dissolved Organic Phosphorus Compounds in Natural Waters,
W77-07668 1016 5C

SOLUTE TRANSPORT

Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

Transport of Reactive Solutes Through Multilayered Soils,
W77-07758 1016 2G

Solute Movement in a Field Soil,
W77-07759 1016 2G

SOLUTE-TRANSPORT MODELS

Derivation of Equations Describing Solute Transport in Ground Water,
W77-12381 1024 5B

SOLUTES

Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

Convective-Dispersive Solute Transport with a Combined Equilibrium and Kinetic Adsorption Model,
W77-05961 1012 2G

Transport of Reactive Solutes Through Multilayered Soils,
W77-07758 1016 2G

Solute Movement in a Field Soil,
W77-07759 1016 2G

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Solute Travel Times to Wells,
W77-09042 1018 5B

Development of Organic Solute and Total Organic Carbon Monitors,
W77-12199 1023 5A

Problems in Predicting and Measuring Solute Concentrations in Irrigated Fields,
W77-12749 1024 5A

SOLVENT EXTRACTIONS

Zinc Removal from Viscose Plant Effluent - by Extraction with Alkyl Phosphoric Acid into an Organic Solvent and Re-Extraction Decomposition Therefrom.
W77-00756 1002 5D

Improved Extraction of Chlorophyll a and b from Algae Using Dimethyl Sulfoxide,
W77-06337 1013 5A

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

Apparatus for the Treatment of Liquids,
W77-12938 1024 5D

SOLVENT RECOVERY

Fast Payout from In-Plant Recovery of Spent Solvents,
W77-06210 1013 5D

SOLVENTS

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Fast Payout from In-Plant Recovery of Spent Solvents,
W77-06210 1013 5D

Investigation of Selected Potential Environmental Contaminants: Ketonic Solvents,
W77-09770 1020 5B

SOMALI CURRENT

Somali Current: Recent Measurements During the Southwest Monsoon,
W77-10128 1021 2L

SOMATOCHLORA SP.

A New Technique for Remote Monitoring of Activity of Freshwater Invertebrates with Special Reference Oxygen Consumption by Niaids of Anax Sp. and Somatochlora Sp. (Odonata),
W77-02216 1005 5C

SONAR

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Channel Siltation Determined with Side-Scan Sonar,
W77-10315 1021 8B

SONG BIRDS

The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

SONOITA CREEK BASIN (ARIZ)

Determining Areal Precipitation in the Basin and Range Province of Southern Arizona - Sonoita Creek Basin,
W77-08308 1017 2B

SONORA (MEX)

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

SORBENTS

Selection Criteria and Laboratory Evaluation of Oil Spill Sorbents.
W77-02769 1006 5G

SORGHUM

Effect of Osmotic Suction on the Germination of Warm Season Grasses, (In Japanese),
W77-00422 1001 2I

Leaf Water Potential and Stomatal Activity in Sorghum as Influenced by Soil Moisture Stress,
W77-01276 1003 2I

Evapotranspiration Model Tested for Soybean and Sorghum,
W77-02550 1005 2D

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Effect of the Presence of Sodium Chloride in the Medium on Growth, Development and Distribution of Chlorine and Sodium in Sorghum Dochna F., (In French),
W77-07291 1015 3C

Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

SORPTION

Sorption of Sulfur Dioxide by Calcareous Soils,
W77-00295 1001 5B

Relationships Between Sorption and Desorption of Phosphorus by Soils,
W77-00298 1001 5B

Sorption on Activated Carbon of Impurities of Textile Industry Effluents (Sorpcja zanieczyszczen ze sciekow przemyslu wlokienniczego na weglu aktywnym),
W77-00339 1001 5D

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Sorption of Organic Impurities from Textile Industry Effluents on Ion-Exchangers (Sorpcja zanieczyszczen organicznych ze sciekow przemyslu wlokienniczego na jonitach),
W77-04819 1010 5D

The Sorption of Iodate and Iodide by Riverine Sediments: Its Implications to Dilution Gauging and Hydrochemistry of Iodine,
W77-04874 1010 2K

The Concise Formulation of Diffusive Sorption of Water in a Dry Soil,
W77-05340 1011 2G

Accumulation of Methoxychlor by Microorganisms Isolated from Aqueous Systems,
W77-05874 1012 5C

Visual Observations of Phosphorus Movement Between Algae, Bacteria, and Abiotic Particles in Lake Waters,
W77-07983 1016 5C

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

Calcium Retention in Response to Phosphate Sorption by Soils,
W77-09291 1019 2G

Phosphorus Sorption and Desorption Characteristics of Soil as Affected by Organic Residues,
W77-10275 1021 2G

Wastewater Phosphorus Removal Using Land Application,
W77-10606 1021 5D

Sorption and Hydrolysis of Added Organic Phosphorus Compounds in Lake Sediments,
W77-10799 1021 5B

Mass Transfer Studies in Sorbing Porous Media I. Analytical Solutions,
W77-10801 1022 2G

Penetrability and Sorptivity in Calcareous Soils,
W77-11095 1022 2G

Mass Transfer Studies in Sorbin Porous Media: II. Experimental Evaluation with Tritium (3H20),
W77-11983 1023 2G

Mass Transfer Studies in Sorbing Porous Media: III. Experimental Evaluation with 2,4,5-T,
W77-11984 1023 2G

Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Plutonium in the Laurentian Great Lakes: Food-Chain Relationships,
W77-12862 1024 5B

SOUHEGAN RIVER (NH)

Flood Plain Information: Merrimack and Souhegan Rivers, Litchfield and Merrimack, New Hampshire.
W77-07645 1016 4A

SOUND ABATEMENT (FORESTS)

Noise Abatement in a Pine Plantation,
W77-05122 1011 4A

SOUND ATTENUATION (FORESTS)
Noise Abatement in a Pine Plantation,
W77-05122 1011 4A

SOUND WAVES
Measurements of Acoustic Properties of Hard-Pack Snow,
W77-02462 1005 2C

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

Sewage Treatment Process,
W77-12925 1024 5D

SOUNDING
Radio-Echo Power Profiling,
W77-05430 1011 2C

Radio-Echo Sounding of Temperate Glaciers: Ice Properties and Sounder Design Criteria,
W77-08229 1017 2C

SOUNDS
Kaiser Effect in Snow,
W77-02154 1005 2C

Seasonal Variation of Residual Drift in Long Island Sound,
W77-03322 1007 2L

Sediment Mass Balance of a Large Estuary, Long Island Sound,
W77-03323 1007 2L

Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

SOUR WATER STRIPPING
New Trends in Sour Water Stripping,
W77-09421 1019 5D

SOURCE LAKE BASIN (WASH)
Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

SOURCES OF ASBESTOS
Asbestos in Potable Water,
W77-06016 1012 5A

SOURCES OF POLLUTION
PCBS in the United States Industrial Use and Environmental Distribution, Task I.
W77-11317 1022 5B

SOUTH AFRICA
A Preliminary Trophic Status Classification of Some South African Impoundments,
W77-01363 1003 5C

Comments on the Storage of Water Vapour in the Atmosphere over South Africa,
W77-01365 1003 2B

Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-01366 1003 4B

A Hydro-Economic Evaluation of Forestry in the Eerste River Catchment,
W77-01368 1003 4A

Afforestation, Catchment Protection and Water Supply Demands,
W77-01371 1003 4D

Orange River Project, River Diversion at P K Le Roux Dam,
W77-01372 1003 8A

Exploring the Drakensberg.
W77-01373 1003 4A

South Africa's Own Snowy Mountain Scheme,
W77-01374 1003 8C

R10 Million Water Scheme Nears Completion, Irrigating the Islands of the Orange.
W77-01375 1003 3F

Harnessing the Cunene's Might.
W77-01376 1003 8C

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Optimum Utilisation of Water,
W77-01383 1003 3F

Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Catchment Research at Zachariashoek,
W77-01386 1003 4D

Oil-Spill Dispersant for Marine Pollution (Lekoliedispergeermiddel vir seebesoedeling).
W77-01387 1003 5G

Eutrophication Levels of Some South African Impoundments. II. Hartbeespoort Dam,
W77-01392 1003 5C

The Benthos of Some Southern African Lakes Part 3: The Benthic Fauna of Lake Nhlange, Kwazulu, South Africa,
W77-01437 1003 2H

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

Sand 'Sponge' Will Store Reclaimed Water.
W77-01451 1003 4B

Escom Pioneers Dry Cooling,
W77-01467 1003 3E

The Cooling Water Equation,
W77-01468 1003 6D

83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

Research with a Practical Bias.
W77-01471 1003 8E

Damming the Crocodile.
W77-01472 1003 6D

Quenching Saldanha's Thirst.
W77-01473 1003 3E

Results of the Multiple Catchment Experiments at the Jonkershoek Research Station, South Africa. 2. Influence of Protection of Fynbos on Stream Discharge in Langrivier,
W77-01474 1003 4D

Change in Big Dam Plan.
W77-01476 1003 8D

Facelift to Beat the Floods.
W77-01477 1003 8A

R26m Dam Plan for the Lowveld.
W77-01478 1003 8A

Solid-Wastes Recycling: Apprehensions, Misapprehensions and Dilemmas,
W77-01484 1003 5D

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
W77-01485 1003 4A

Control of Water Pollution - A Hidden Resource, (Beheer oor waterbesoedeling - 'n verborge hulpbron),
W77-01489 1003 5G

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

Industry and the Environment,
W77-05508 1011 5G

Estimating Above and Below Normal Rainfall Periods Over South Africa, 1972-2000,
W77-07170 1015 2B

The Renovation and Re-Use of Wastewater,
W77-09686 1020 5D

The Tugela-Vaal State Water Scheme as a Bilharzia Risk (Die Tugela-Vaal-Staatswaterskema as 'n Bilharziarisiko),
W77-09690 1020 5G

Making Sure of Pipeline Performance,
W77-10068 1020 8A

Proposed Pipeline System Will Link Water Schemes DWA's R24 Million Balancing Act.
W77-10069 1020 8B

The Dam Busters,
W77-10070 1020 8A

Hydro-Electric Development of the Tugela River,
W77-10073 1020 8C

Grassing Roads and Eroded Areas in the Drakensberg,
W77-10075 1020 4D

Rainfall Trends in 80 Rainfall Districts of South Africa,
W77-10085 1020 2B

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

Annual Rainfall Frequency Distributions for 80 Rainfall Districts in South Africa,
W77-10206 1021 2B

The KWA Dabeka-Clermont Sewerage Scheme-Planning, Design and Operation,
W77-10220 1021 5D

Possibilities of Recycling in South Africa, Choices and Conflicts,
W77-10221 1021 5D

Freshwater Algae of Southern Africa:3. Pleurotaenium Breve Raciborski Var. Engleri (Schmidle) Krieger and Penium Gonatozygiforme Claassen Sp. Nov. from Transvaal,
W77-11546 1023 5C

Epidemics of West Nile and Sindbis Viruses in South Africa with Culex (Culex) Univittatus Theobald as Vector,
W77-11547 1023 5C

Possibilities of Waste Recycling in South Africa - Choices and Conflicts,
W77-11551 1023 5D

Possibilities of Waste Recycling in South Africa - II,
W77-11552 1023 5D

Roof Drainage of Large Buildings in South Africa,
W77-11555 1023 3B

SOUTH AFRICA (WEST COAST)
Cadmium Concentrations in the Tissues of Bullia Digitalis (Prosobranchiata) from the South African West Coast,
W77-10203 1021 5C

SOUTH AFRICAN CLAW TOAD
Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

SOUTH AMERICA
Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

Hydrochemistry of the Parana River,
W77-00644 1002 2K

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

Hydrogeological Investigations in the Pampa of Argentina,
W77-05813 1012 4B

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

Dynamics of Climatic Hazards in Northeast Brazil,
W77-07167 1015 2B

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

A Survey of the Biological Limnology of Lake Titicaca,
W77-07503 1015 5C

Through the Andes.
W77-09687 1020 8A

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

The Groundwater Resources of Uruguay,
W77-12312 1024 4B

SOUTH ANNA RIVER (VA)
Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

SOUTH BRANCH KISHWAUKEE RIVER (IL)
South Branch Kishwaukee River Flood Plain Information, De Kalb County, Illinois.
W77-10915 1022 4A

SOUTH BRANCH WEST FORK BIG BLUE RIVER (NB)
Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

SOUTH CAROLINA
State of South Carolina Weather and Crop Summaries,
W77-00282 1001 3F

Evaluation of Recreational Sites,
W77-00387 1001 6B

Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

State Coastal Management Programs,
W77-05035 1010 6E

Soil Movement in Established Gullies After a Single Prescribed Burn in the South Carolina Piedmont,
W77-05118 1011 4C

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

Effects of a Thermal Effluent on the Ostracods of Par Pond, South Carolina,
W77-05576 1011 5C

Effects of Entrainment Through Oconee Nuclear Station on Carbon-14 Assimilation Rates of Phytoplankton,
W77-05590 1011 5C

A Structural-Functional Analysis of the Socio-Political System Relative to Water and Related Land Resources in the Coastal Zone of South Carolina,
W77-05722 1012 6B

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Inorganic Contaminants in Rural Drinking Waters,
W77-07372 1015 5A

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

A Statistical Analysis of the Mercury Concentrations in Fish from Lake Jocassee, South Carolina,
W77-08190 1017 5A

Arsenic in Water and Fish from Lakes Hartwell, Keowee, and Jocassee, South Carolina,
W77-08191 1017 5A

Effects of 40-Foot Charleston Harbor Project on Tides, Currents, and Salinities; Hydraulic Model Investigation,
W77-08222 1017 2L

Density and Distribution of Benthos in Lake Keowee, South Carolina,
W77-08818 1018 5C

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

A Reconnaissance of the Hydrology of the Intracoastal Waterway from Bucksport to Little River Inlet, South Carolina,
W77-09077 1018 2L

The Dynamics of an Estuary as a Natural Ecosystem.
W77-09517 1019 5C

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

Charleston Harbor Navigation Study, South Carolina, Verification Tests; Hydraulic Model Investigation,
W77-10019 1020 8B

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Mercury Levels in Freshwater Fish of the State of South Carolina,
W77-12223 1023 5A

Water Resources Data for South Carolina, Water Year 1976.
W77-12388 1024 7C

SOUTH CASCADE GLACIER (WASH)
Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

SOUTH-CENTRAL IDAHO
Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

SOUTH-CENTRAL STATES
Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

SOUTH CENTRAL VALLEY BASINS
Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

SOUTH COAST DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, North, Mid-, and South Coast Drainage Basins, Appendix I-17, and 18,
W77-07622 1016 2G

SOUTH DAKOTA
Pilot Investigation of the Importance of Various Wetland Types to Duck Production,
W77-00145 1001 2H

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

A Tale of Two Cities: Flood History and the Prophetic Past of Rapid City,
W77-00706 1002 6F

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

Silt Removal from a Lake Bottom,
W77-03392 1007 5C

Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

Sediment and Runoff Measurements for a Typical Great Plains Prairie Lake,
W77-04108 1009 5B

Major Aquifers in Deuel and Hamlin Counties, South Dakota,
W77-07483 1015 4B

LANDSAT-1 Data, Its Use in a Soil Survey Program,
W77-08414 1017 2G

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Hydrologic Unit Map--1974, State of South Dakota.
W77-08476 1017 7C

United Family Farmers V Kleppe (Initial Stages of Reclamation Projects Possible Before Recordable Contracts are Executed).
W77-10485 1021 6E

Changes in Total N, Organic Matter, Available P, and Bulk Densities of a Cultivated Soil 8 Years After Tame Pastures Were Established,
W77-12115 1023 3F

Correlations Between Rain and Runoff Amounts and Composition in Eastern South Dakota,
W77-12308 1024 4A

Flood Plain Information: Brookings, Brookings County, South Dakota, Volume II, Six Mile Creek.
W77-12599 1024 4A

Water Quality and Return Flow Study of the Oahe Unit, South Dakota,
W77-12750 1024 5G

SOUTH DAKOTA RAIN
Hourly Cumulative Totals of Rainfall, Black Hills Flash Flood June 9-10, 1976,
W77-10986 1022 2B

SOUTH FORK (LONG ISLAND)
Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

SOUTH FORK SALMON RIVER (IDA)
Analysis of Rehabilitation Treatment Alternatives for Sediment Control,
W77-05116 1011 4D

SOUTH GABOURI CREEK (MO)
Flood Plain Information: Ste. Genevieve, Missouri: Mississippi River, North and South Gabouri Creeks.
W77-09374 1019 4A

SOUTH GEORGIA ISLAND
A Snow-Bank Push Mechanism for the Formation of Some 'Annual' Moraine Ridges,
W77-08054 1016 2C

SOUTH KOREA
Growth Factors on Oyster and Water Pollution in South Coastal Area in Korea, (In Korean),
W77-02257 1005 5C

SOUTH LOUISIANA CRUDE OIL
Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

SOUTH PLATTE RIVER BASIN (COLO)
Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

SOUTH PLATTE RIVER (COLO)
Effects of Water-Management Practices on the Flow of the South Platte River, Colorado,
W77-02303 1005 4B

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

SOUTH PLATTE RIVER (COLO-NEB)
Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

SOUTH PLATTE RIVER (COLORADO)
Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

SOUTH PLATTE RIVER (NB)
Flood Plain Information: North Platte, Nebraska; North Platte River and South Platte River.
W77-04213 1009 4A

SOUTH RIVER WATERSHED (VA)
A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

A Finite Element Model to Determine the Effect of Land-Use Changes on Flood Hydrographs,
W77-08450 1017 8B

Effect of Land Use Management on Flood Predictions,
W77-10181 1021 4C

SOUTH SASKATOON RIVER
Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

SOUTH WALES
Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

SOUTH WEST AFRICA
Power and Water for South West Africa,
W77-01382 1003 3E

Pinpointing Boreholes Electrically.
W77-01448 1003 2F

The Epidemiology of Reclaimed Water,
W77-01492 1003 5D

Some Aquatic Vertebrates from the Namib Desert, South West Africa,
W77-01493 1003 2I

Tunnelling Work for the Ruacana Scheme,
W77-09688 1020 8A

SOUTH YAMHILL RIVER (OR)
Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

SOUTHAMPTON WATER (ENGLAND)
Measurements of Waves in Southampton Water and their Variation with the Velocity of the Tidal Current,
W77-03856 1008 2L

SOUTHEAST ALASKA
Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

SOUTHEAST IDAHO
Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

SOUTHEAST U.S.
Floods of March-April 1973 in Southeastern United States,
W77-00434 1001 2E

Erosion and Sediment from Forest Land Uses, Management Practices and Disturbances in the Southeastern United States,
W77-00787 1002 4C

Nutrient Recycling and the Stability of Ecosystems: Implications for Forest Management in the Southeastern U.S.,
W77-01420 1003 2K

Report of the Conference on Marine Resources of the Coastal Plains States, December 5-6, 1974,
W77-05029 1010 6B

Operational Considerations for the Application of Remotely Sensed Forest Data from LANDSAT or Other Airborne Platforms,
W77-08417 1017 7C

Timber Type Separability in Southeastern United States on LANDSAT-1 MSS Data,
W77-08418 1017 4A

Persistence, Runs and Recurrence of Precipitation,
W77-10110 1021 2B

Radiocaesium Dynamics in a Contaminated Floodplain Ecosystem in the Southeastern United States,
W77-10406 1021 5C

SOUTHEAST US
Tri-State Conference Report: Methods for Beach and Sand Dune Protection,
W77-00193 1001 4D

United States Coast Pilot 4 - Atlantic Coast from Cape Henry to Key West.
W77-00278 1001 4A

Municipal Watershed Management Survey,
W77-00608 1002 5B

The Shrimp Fishery of the South Atlantic United States: A Regional Management Plan.
W77-00918 1002 6B

Municipal Watershed Management Survey,
W77-01422 1003 4D

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

Hydrologic Model of a Wetland Forest--Details of Construction,
W77-05115 1011 4D

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

A Progress Report on Estimating Snow Depth Using VHRR Data NOAA Environmental Satellites,
W77-10682 1021 2C

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

SOUTHEAST US COAST
United States Coast Pilot 4 - Atlantic Coast from Cape Henry to Key West.
W77-00278 1001 4A

SOUTHEASTERN COLORADO
Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

SOUTHEASTERN CURRY COUNTY (N MEX)
Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

SOUTHERN CALIFORNIA
Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

SOUTHERN CALIFORNIA BIGHT
Environmental Impact Assessment, Water Quality Analysis, S. California Bight.
W77-01969 1004 5G

SOUTHERN FLORIDA
Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

SOUTHERN FLOUNDER
Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

SOUTHERN GREAT PLAINS
Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

SOUTHERN INDIAN LAKE (MANITOBA)
Lake Whitefish (Corregonus Clupeaformis (Mitchill) in Southern Indian Lake, Manitoba,
W77-02821 1006 2H

SOUTHERN ONTARIO
Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

SOUTHERN UTE INDIAN RESERVATION (COLO)
Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

SOUTHERN WILLAMETTE VALLEY (OREG).C
Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

SOUTHLAKE (TX)
Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

SOUTHWEST FLORIDA
Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

SOUTHWEST U.S.
Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

A Study of Various State Flood Plain Regulations in an Effort to Emphasize Florida's Need to Exact Comprehensive Planning and Land use Controls, Which are Designed to Afford Protection Against Hurricane Damage,
W77-01095 1003 6E

The Hydrology of Prehistoric Farming Systems in a Central Arizona Ecotone,
W77-01891 1004 3F

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

Sediment Yield and Land Use in Southwest United States,
W77-08178 1017 4D

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

SOUTHWEST US
Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

A Computerized Information System on the Impacts of Coal-Fired Energy Development in the Southwest,
W77-02163 1005 6G

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

SOVEREIGN IMMUNITY
A Rational National Policy on Public Use of the Beaches,
W77-08976 1018 6E

The McCarren Amendment and Indian Tribes' Reserved Water Rights,
W77-10453 1021 6E

SOVEREIGNTY
Some Suggestions for the Management of International River Basins,
W77-07250 1015 6E

SOVIET UNION (USSR)
Possibility of Introducing Waste-Free Technology in the Pulp and Paper Industry (Vozmozhnosti vnedreniya bezotkhodnoi tekhnologii v otrasli),
W77-02583 1006 3E

SOXHLET EXTRACTION
A Comparison of Methods of Hydrocarbon Analysis of Marine Biota,
W77-08789 1018 5A

SOYBEAN
Effect of Water Stress During Different Stages of Growth of Soybean,
W77-09302 1019 2I

SOYBEAN LODGING
Irrigating Soybeans with Limited Water,
W77-02523 1005 3F

SOYBEANS
Maximizing Stomatal Control and Root System to Optimize Water-Use Efficiency in Soybeans,
W77-02077 1005 3F

Environmental Implications of N Fixation by Soybeans,
W77-02289 1005 3C

Irrigating Soybeans with Limited Water,
W77-02523 1005 3F

Evapotranspiration Model Tested for Soybean and Sorghum,
W77-02550 1005 2D

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: II. Effect of Plant Growth on Soil Water Pressure and Water Loss Patterns,
W77-05199 1011 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: III, Rooting Characteristics and Root Extraction of Soil Water,
W77-05200 1011 2G

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W77-05990 1012 2D

Okla. Searches for Drought-Resistant Seed,
W77-06245 1013 3F

Distribution of Assimilates in Soybeans During Fruit Growth in Flooded Soil, (In Russian),
W77-06421 1013 3F

Lead Effects on Several Enzymes and Nitrogenous Compounds in Soybean Leaf,
W77-09280 1019 5C

Uptake of Cadmium by Soybeans as Influenced by Soil Cation Exchange Capacity, pH and Available Phosphorus,
W77-09977 1020 2G

Water Relations and Growth of Soybeans in Drying Soil,
W77-11622 1023 2I

Relationship Between Nitrogen Analysis of Soybean Tissues and Soybean Yields,
W77-11944 1023 3F

Long-Term Residual Fertility and Current N-P-K Application Effects on Soybeans,
W77-11945 1023 3F

Evapotranspiration and Water Use Efficiency by Soybean Lines Differing in Growth Habit,
W77-11965 1023 3F

Evaluation of an Electronic Foliometer to Measure Leaf Area in Corn and Soybeans,
W77-12118 1023 7B

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

Compatible Sediment Control Practices and Tillage Systems,
W77-12181 1023 4D

Response of Soybean Varieties to Potassium under Rainfed Conditions,
W77-12294 1024 3F

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

Conservation Tillage - Effects on Crop Production and Sediment Yield,
W77-12626 1024 3F

SPAATZ ISLAND
Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

SPACE CAPSULES (VIRUS DETECTION)
Water System Virus Detection,
W77-09636 1020 5A

SPACE PHOTOGRAPHS
Some Problems in the Study of the Inundation of River Flood Plains by Aerospace Methods,
W77-03847 1008 4A

SPACE-TIME MODELING (RAINFALL)
A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

SPACING (DRAINS)
Drain Spacing Based on Dynamic Equilibrium,
W77-09698 1020 2F

SPAIN
Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Effects of Kraft Pulping Effluents on the Benthic Algal Populations in Northwestern Spain. I. Distribution and Abundance of Characteristic Fucaceae (Incidencia de vertidos industriales en la estructura de poblaciones intermareales. I. Distribucion y abundancia de Fucaceas caracteristicas),
W77-05690 1012 5C

Flash Floods in the Western Mediterranean (Les Crues Catastrophiques sur la Mediterranee Occidentale),
W77-08245 1017 2E

Flash Floods in Spain (Les Crues Brutales En Espagne),
W77-08247 1017 2E

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

SPAIN (LAKES)
Optimal Growth Temperatures and Media Parameters of Bacterial Communities from Lakes of Different Trophic States,
W77-07994 1016 5C

SPAIN (QUADALQUIVER RIVER)
Desalinization of a Highly Saline Soil, Prediction and Field Observation,
W77-12762 1024 3A

SPARK SOURCE MAsS SPECTROMETRY
Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

SPARTINA ALTERNIFLORA
Capacity of a Spartina Salt Marsh to Assimilate Nitrogen from Secondarily Treated Sewage,
W77-00003 1001 5B

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Salt Marsh Establishment and Development,
W77-02420 1005 4D

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Nitrogen and Phosphorus Utilization by Spartina Alterniflora in a Salt Marsh in Barataria Bay, Louisiana,
W77-05228 1011 5C

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

Animal Colonization of Man-Initiated Salt Marshes on Dredge Spoil,
W77-10035 1020 2L

SPARTINA ALTERNOFLORA
The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

SPATIAL ANALYSIS TECHNIQUES
Towards System Models for Water Resource Management,
W77-07544 1015 6A

SPATIAL DISTRIBUTION
Spatial Variability in Soils Below Depth of Tillage: Bulk Density and Fifteen Atmosphere Percentage,
W77-00284 1001 2G

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W77-01246 1003 5B

Vertical Distribution of Strontium-90 and Cesium-137 in Bottom Deposits of Rivers and Lakes, (In Russian),
W77-01560 1004 5B

Chlorophyll Degradation Product in Sediments of Lake Tega-Numa, (In Japanese),
W77-01604 1004 5C

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-02808 1006 5C

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Space-Time Correlation Function of the Field of Evaporation from the Water Surface,
W77-03849 1008 2D

Numerical Simulation of the Orographically Induced Precipitation Distribution for Use in Hydrologic Analysis,
W77-05974 1012 2B

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Wassaw Island Erosion Study. Part 1: Sedimentary Framework of a Channel Margin Shoal of an Ebb Delta, Wassaw Sound, Georgia,
W77-07324 1015 2L

Preliminary Investigations on Bivalves Bivalvia of the Dam Reservoir at Goczalkowice,
W77-07440 1015 5C

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

The Vertical Distribution of Plankton Rotifers in a Small Alpine Lake with a Sharp Oxygen Depletion (Lunzer Obersee),
W77-07456 1015 5C

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Macrophyte-Sediment Relationships in Chautaugua Lake,
W77-09612 1020 5C

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Daily Vertical Distribution of Zooplankton in Some Lakes in the Eastern Part of the Bol'shezemel'skaya Tundra (In Russian),
W77-11501 1023 2L

Bacteriological Analyses Over the Rajka-Budapest Danube Section (Bakteriologiai vizsgalatok a Duna Rajka-Budapest kozotti szakaszan),
W77-11732 1023 5A

Changes in the Vertical Distribution of the Planktonic Crustacea in Lake Tazenat and Lake Pavin (Massif Central, France) During the Year, (In French),
W77-12468 1024 2H

SPATIALLY VARIED FLOW

Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

SPAWING

Evolutionary Aspect of the Reproductive Evology of Salmon of the Genus Salmo in Some Water Bodies of Kamchatka, (In Russian),
W77-00519 1001 2I

SPAWN CREEK (UTAH)

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

SPAWNING

Presence of Spring and Winter Races of the Nelma in the OB River, (In Russian),
W77-00057 1001 2I

Seasonal Shifts in the Spawning Site of a Northeast Pacific Intertidal Fish,
W77-01063 1002 2L

Seasonal Distributions of Larval Flatfishes (Pleuronectiformes) on the Continental Shelf Between Cape Cod, Massachusetts, and Cape Lookout, North Carolina, 1965-66,
W77-01064 1002 2L

Influence of Sand in Redds on Survival and Emergence of Brook Trout (Salvelinus Fontinalis),
W77-02711 1006 2I

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Year-Class Abundance of Pelagophilic Summer-Spawning Fishes of the Black Sea and Factors Determining It, (In Russian),
W77-04579 1009 2L

Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus (L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

Larval Abundance in Relation to Stock Size, Spawning Potential and Recruitment in North Sea Herring,
W77-05830 1012 2L

Relations Between Egg Production, Larval Production and Spawning Stock Size in Clyde Herring,
W77-05831 1012 2L

The Use of Data on Eggs and Larvae for Estimating Spawning Stock of Fish Populations with Demersal Eggs,
W77-05832 1012 2L

On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

Present and Historical Spawning Grounds and Nurseries of American Shad, Alosa sapidissima, in the Delaware River,
W77-07131 1015 5C

Breeding Biology of a Non-Diadromous Galaxiid, Galaxias Vulgaris Stokell, in a New Zealand River,
W77-07389 1015 5C

Oxygen Consumption, Ventilatory Frequency and Heart Rate of Lampreys (Lampetra Fluviatilis) During Their Spawning Run,
W77-07399 1015 5C

Mathematical Models of Strontium-90 Behavior in 'Water-Fresh Water Fish Spawn' System for Particular Cases of Radioactive Contamination of Reservoirs, (In Russian),
W77-07539 1015 5C

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

The Reproduction of Barbus CF. Kimberleyensis (Pisces, Cyprinidae) in the Hardap Dam, South West Africa,
W77-10218 1021 2H

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Spawning Success of the Black Crappie, Pomoxis Nigromaculatus, at Reduced Dissolved Oxygen Concentrations,
W77-12192 1023 5C

SPAWNING BEHAVIOR

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

SPAWNING CHANNEL

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

SPAWNING CRITERIA

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

SPEARMAN RANKED COEFFICIENT

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

SPECIATION

Intraspecific Differentiation of Calanus Plumchrus Marukawa,
W77-00401 1001 5C

Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

SPECIATION

Aspects of Heavy Metals Toxicity in Fresh Waters,
W77-01306 1003 5C

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

Changes in Phytoplankton Species Composition Since 1894 in Two Lakes in East-Holstein, Germany,
W77-07501 1015 5C

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

Benthic Macrofaunal Dynamics, Production, and Dispersion in an Oxygen-Deficient Estuary of West Sweden,
W77-12216 1023 5C

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

Studies on Plover Cove Reservoir, Hong Kong III. A Comparison of the Species Composition of Diatom Floras on Different Substrates, and the Effects of Environmental Factors on Their Growth,
W77-12783 1024 5C

The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

Minimal Dissolved Oxygen Requirements of Aquatic Life with Emphasis on Canadian Species: A Review,
W77-12871 1024 5C

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

SPECIE DIVERSITY

The Effect of Stable Dissolved-Oxygen Stress on Marine Benthic Invertebrate Community Diversity,
W77-12846 1024 5B

SPECIES

Qualitative and Quantitative Characteristics of Commercial Fish of the Soligorsk Reservoir, (In Belorussian),
W77-02040 1004 2I

SPECIES COMPOSITION

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

A Lakewide Study of Phytoplankton Biomass and its Species Composition in Lake Erie, April-December 1970,
W77-03039 1006 5C

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

The Effect of the Impoundment of Lake Kainji, Nigeria, on the Indigenous Species of Mormyrid Fishes,
W77-08772 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

SPECIES DENSITY

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

SPECIES DIVERSITY

Species Diversity of Freshwater Plankton Agglomerations, (In Polish),
W77-00495 1001 7B

Diversity of Marine Invertebrates in a Thermal Effluent,
W77-00883 1002 5C

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Aquatic Insect Diversity and Biomass in a Stream Marginally Polluted by Acid Strip Mine Drainage,
W77-07846 1016 5C

The Importance of Monitoring Change,
W77-09591 1019 5A

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Results of Aquatic Surveys at Pine Bluff Arsenal, Arkansas, September 1973 - October 1974,
W77-10947 1022 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

SPECIES DIVERSITY INDEX

Analysis of Data from Biological Surveys of Streams: Diversity and Sample Size,
W77-09778 1020 5A

SPECIES DOMINANCE

Density, Distribution and Movement of Nipigon Bay Fishes in Relation to a Pulp and Paper Mill Effluent,
W77-11358 1022 5C

SPECIES FLUCTUATION

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

SPECIFIC CONDUCTANCE

Predicting Specific Conductance and Salt Concentration in Dilute Aqueous Solutions,
W77-04765 1010 2G

SPECIFIC CONDUCTIVITY

A Specific Conductance Method for Quality Control in Water Analysis,
W77-05453 1011 2K

SPECIFIC GRAVITY

Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-07089 1014 5G

Effect of Major Ion Variations in the Marine Environment on the Specific Gravity--Conductivity--Chlorinity--Salinity Relationship,
W77-07802 1016 2K

SPECIFIC GROWTH RATE

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

SPECIFIC HEAT

Effect of Compaction and Moisture Content on Specific Heat and Thermal Capacity of Soils,
W77-12161 1023 2G

SPECIFIC SURFACE MEASUREMENT (SOILS)

Estimation of Components of Soil Cation Exchange Capacity from Measurements of Specific Surface and Organic Matter,
W77-09971 1020 2G

SPECIFIC YIELD

Specific Yield Determinations from a Consolidated Sandstone Aquifer,
W77-07153 1015 2F

SPECIFICATIONS

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

SPECTORSCOPY
Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

SPECTRAFLUOROMETERS
Modification of a Commercial Spectrofluorometer for Rapid Determination of Near Infrared Emission,
W77-02537 1005 2K

SPECTRAL ANALYSIS
High-Wave Conditions Observed Over the North Atlantic in September 1961,
W77-03090 1007 2L

Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

SPECTRAL BANDWIDTHS
Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

SPECTRAL FILTERS
Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

SPECTRAL MEASUREMENTS
Analysis of Variations in Ocean Color,
W77-12557 1024 2K

SPECTRAL METHOD
On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

SPECTROMETERS
Modification of a Commercial Spectrofluorometer for Rapid Determination of Near Infrared Emission,
W77-02537 1005 2K

SPECTROPHOTOMETRY
Identification of Oil Pollutants: A Review of Some Recent Methods,
W77-00221 1001 5A

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

Performance Characteristics for the Spectrophotometric Determination of Total Iron in Freshwater Using Hydrochloric Acid,
W77-01642 1004 5A

Emission Spectrometic Element Determination in the Nano- and Picogram Region After Vaporization of the Elements with Gas Plasmas Induced with Microwaves: 1. Extremely Sensitive Mercury Determination in Aqueous Solutions, Air Organic and Inorganic Materices, (In German),
W77-02229 1005 5A

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry, Phase I - Sample Aging Study,
W77-03922 1008 5A

First Data on the Presence of Some Metallic Elements in Mytilus Galloprovincialis, Lam. of the Eastern Sicilian Coast, Revealed by Atomic Absorption Spectrophtometry, (In Italian),
W77-04207 1009 5A

Determination of Lithium in Seawater by Flame Photometry and Atomic Absorption: Application to Arosa Estuary, (In Spanish),
W77-04586 1009 5A

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Determination of Harmful Heavy Metals in Plating Waste Waters (Mekki haisui chu no yugaisei kinzoku no teiryo),
W77-05507 1011 5A

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

Heavy Metals (Fe, Mn, Cd, Cr, Cu, Pb and Zn) in the Pelagic Zone of Lake Constance (Obersee and Untersee) and the Greifensee, (In German),
W77-07580 1015 5A

A Comparison of Spectrophotometric Methods for the Determination of Phytoplankton Pigments, (In French),
W77-07581 1015 5A

Colormetric Determination of Zinc Via Resorcinol Complex,
W77-09138 1019 5A

An Automatic Scanning Apparatus for Gamma Spectrometry for the Determination of the Moisture Content in Soil Columns, (In Dutch),
W77-09613 1020 2G

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

SPECTROSCOPY
Remote Detection of Water Pollutants by Computerized Laser-Raman Spectroscopy,
W77-00154 1001 5A

Precision Aquarator Speeds COD Determination,
W77-00605 1002 5A

The Spectrometric Determination of Mercury (at 253,65 nm) In Natural Water - A Brief Literature Survey,
W77-01442 1003 5A

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Identification of Acid-Containing Fraction of Odorants of Natural Water, (In Russian),
W77-02901 1006 5A

Studies on a Mechanism for Salt Rejection in Reverse Osmosis Membranes as a Guide to Improved Materials for Desalination of Sea Water.
W77-03290 1007 3A

Petroleum Identification by Laser Raman Spectroscopy,
W77-04843 1010 5A

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Measurement of and Calibration for Gamma Spectroscopy of Mississippi River Water,
W77-05486 1011 5A

Investigation of Detection Limits for Solutes in Water Measured by Laser Raman Spectrometry,
W77-08171 1017 2K

Spectroanalytical Parameters of Fungal Metabolites: Oosporein and Desmethoxyviridiol,
W77-08449 1017 2K

Bituminoid Formation in the Mud Sediments of Domestic Sewage, (In Russian),
W77-08618 1018 5A

Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

Compounds of Zinc and Copper in Sewage Sludge Determined by Electron Spectroscopy,
W77-11482 1022 5A

Characterization of Polychlorinated Biphenyl Distribution in the Marine Environment,
W77-12242 1023 5A

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

SPENT PULPING LIQUORS (BIOCONVERSION)
Biological Possibilities for Waste Water Purification (Consideratii asupra posibilitatilor biologice de purificare a apelor reziduale),
W77-05685 1012 5G

SPENT SULFITE LIQUORS
Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

SPEWRELL BLUFF DAM PROJECT (GEO)
The Measurement of Economic Uncertainty in Public Water Resource Development,
W77-04391 1009 6B

SPHAEROTILUS INHIBITION
Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

SPICARA-SMARIS
Seasonal Dynamics of Hematological Indices in some Black Sea Fish and Changes in these Indices During Experimental Poisoning by Petroleum Products, (In Russian),
W77-12973 1024 5C

SPICKET RIVER (MA)
Flood Plain Information: Merrimack, Shawsheen, and Spicket Rivers, Lawrence, Methuen, Andover and North Andover, Ma.
W77-11845 1023 4A

SPILL CONDITIONS
Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

SPILL IMPACTS
The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

SPILL PROBABILITIES
The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

SPILL QUANTITY
The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

SPILL SEASON
Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

SPILLWAY
Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

SPILLWAY CRESTS
Analysis of Flows with Initially Unknown Discharge,
W77-05968 1012 8B

SPILLWAY DEFLECTOR
Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

SPILLWAY DEFLECTORS
Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

SPILLWAY-STILLING BASIN STRUCTURES
Structural Modifications,
W77-05087 1010 8A

SPILLWAYS
Chute Spillway for Cowanesque Dam Cowanesque River, Pennsylvania; Hydraulic Model Investigation,
W77-02959 1006 8B

Experimental Investigation of Flow Over Side Weirs,
W77-03317 1007 8B

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

Spillways with Notched Overflow Edge (Vodoslivy s zubchatoi perelivnoi kromkoi),
W77-05718 1012 8B

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

Final Report, The Effect of Spillway Flow Deflectors at Bonneville Dam on Total Gas Supersaturation and Survival of Juvenile Salmon,
W77-06030 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Design of Gravity Dams, Design Mnual for Concrete Gravity Dams,
W77-07151 1015 8A

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Design and Operation of Rain Spillways and Rain Overflow Catchment (Entwurf and Betrieb von Regenuberlaufen (Ru) und Regenuberlaufbecken (RUB),
W77-09822 1020 8B

North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VI. Gates, Stop Logs, and Trashracks,
W77-10135 1021 8C

SPINACH
Response of Oat and Spinach to Sewage Sludge Application in Soil,
W77-08495 1017 5C

SPIRAL CASES
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

SPIRAL-WOUND MODULES
Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

SPIROGYRA
The Availability of Chlorophyllide in Hydrophytes and Algas of Lake Trasimeno and the Variability of Pigment Content in Spirogyra, (In Italian),
W77-08044 1016 5C

SPISULA SOLIDISSIMA
Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

SPITS
Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

SPITSBERGEN
The Origin of Glacially Fluted Surfaces - Observations and Theory,
W77-02465 1005 2C

SPLASH EROSION
Splash Erosion of Primary Particles and Aggregates,
W77-09288 1019 2J

SPLIT STREAM CHEMICAL TREATMENT
Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

SPODOSOL
Nutrient Distributions in a Spodosol During Corn Growth,
W77-02516 1005 5B

SPOIL
Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

Trace Metals in Open Water Disposal of Dredged Material,
W77-11780 1023 5E

SPOIL BANKS
Elastic-Plastic Stability Analysis of Mine-Waste Embankments,
W77-02502 1005 8D

Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

Impacts of the Deposition of Dredged Spoils on Lake Erie Sediment Quality and Associated Biota,
W77-03094 1007 5C

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

Efforts in Marine Revegetation in Artificial Habitats,
W77-03949 1008 5G

Time-Dependent Development of Strength in Dredgings,
W77-05966 1012 5G

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

The Effects of Dredging on Water Quality in the Northwest,
W77-06535 1013 5G

Amdel Pipeline Inc V State of Texas (Statutory Requirement of Payment for Spoil Dredged from Bottom of Approaches to Corporate Loading Docks).
W77-07271 1015 6E

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

SPOIL DISPOSAL

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

SPOIL FAUNA

Macroinvertebrate Colonization of Spartina Marshes Artificially Established on Dredge Spoil,
W77-06253 1013 5C

SPOKANE RIVER (WASH)

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Response of the Spokane River Diatom Community to Primary Sewage Effluent,
W77-09273 1019 5C

SPONGE SPECIES

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

SPONGES

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

SPOON DUCK

Organchlorine Pesticides and PCBs Distribution in Tissues of Purple Heron and Spoon Duck from the Biological Reserve of Donana (Spain),
W77-09677 1020 5A

SPORES

Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Dispersal of Phytophthora Palmivora Sporangia by Wind-Blown Rain,
W77-11927 1023 3F

SPORLEY LAKE (MICH)

Response of Daphnia Population Size and Age Structure to Predation,
W77-03390 1007 2H

SPOROBOLOMYCES

Yeasts from Brackish Waters in Lorraine, (In French),
W77-06269 1013 5B

SPORT FISH

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

SPOT

Temperature as a Growth Accelerator in the Spot (Teleost: Sciaenidae),
W77-05556 1011 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

SPOTS

Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

SPOTTED SEA TROUT

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

SPRAY CHARGE

Electrostatic Induction Parameters to Attain Maximum Spray Charge to Clear Fog,
W77-03299 1007 3B

SPRAY IRRIGATION

An Ecological Blueprint for Today.
W77-01548 1003 5D

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

Spray Irrigation Solves Disposal Problem,
W77-02356 1005 5D

Spray Irrigation of Waste Water on Citrus Groves,
W77-02544 1005 5D

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

Spray Irrigation of Treated Municipal Sewage Effluent and Its Effect on Chemical Properties of Forest Soil,
W77-08202 1017 5D

Spray Irrigation-Waste Water Treatment Facility. North Branch Fire District No. 1, West Dover, Vermont.
W77-09828 1020 5D

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-11692 1023 5G

SPRAY-ON STABILIZERS

Protection of Slopes Against Rainfall Erosion,
W77-12561 1024 4D

SPRAYING

Aerial Spraying of Phreatophytes with Antitranspirant,
W77-02867 1006 3B

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

Application of Corrugated Sheet Sprayers for Water Purification (Die Anwendung von Wellbahnrieslern in der Wasseraufbereitung),
W77-08543 1017 5F

A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

Impact of an Urban Methoxychlor Spraying Program on the Rouge River, Michigan,
W77-12220 1023 5B

SPRAYS

Electrostatic Induction Parameters to Attain Maximum Spray Charge to Clear Fog,
W77-03299 1007 3B

SPRING

The Influence of Spring Circulation on Zooplankton Dynamics in the Plussee,
W77-07518 1015 5C

SPRING BURNS

Hydrologic Response and Nutrient Concentrations Following Spring Burns in an Oak-Hickory Forest,
W77-11613 1023 4C

SPRING CREEK (MONT)

Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

SPRING CREEK (PENN)

Changes in Benthos and Fishes of a Stream Accompanying a Substantial Reduction in Plant Nutrients,
W77-02191 1005 5C

SPRING CREEK (UTAH)

Blacksmith Fork and Spring Creek Flood Plain Information, Millville, Utah.
W77-11843 1023 4A

SPRING MIGRATION

Osmotic Stress and Mortality in Adult American Shad During Transfer from Saltwater to Freshwater,
W77-06436 1013 5C

SPRING WATERS

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

Mc Ilray V Hamilton (Permissive Use of Spring Overflow Defeats Prescriptive Right Claim),
W77-09006 1018 6E

SPRINGS

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

SPRINGS

Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

Supersaturation and Fishery Observations in Selected Alpine Oregon Stream,
W77-04418 1009 5C

Mineral Springs of Iceland, their Character and Curative Properties, (In German),
W77-04842 1010 2K

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

Hydrogeology of the Spring Waters with High F Content from the Surroundings of Tendurek Volcano, (In Turkish),
W77-06379 1013 5B

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

SPRINKLE IRRIGATION

Traveling Gun Application Uniformity in High Winds,
W77-11403 1022 3F

SPRINKLER IRRIGATION

Non-Side-Splash Water Sprinklers,
W77-01197 1003 3F

Pipe-Following Irrigation Machine,
W77-01224 1003 3F

Hydraulic Actuated Load Sensing Governor,
W77-01715 1004 3F

Self-Correcting Linearly Movable Irrigation System,
W77-01730 1004 3F

Oscillating Sprinkler,
W77-01745 1004 3F

Governor for Rotary Sprinkler,
W77-01755 1004 3F

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

The Future of Automated Sprinkler Irrigation Systems,
W77-02092 1005 3F

Sprinklers for Multiple Use,
W77-02095 1005 3F

What's in the Future for Sprinkler Irrigation,
W77-02096 1005 4A

Comparing Three Mechanical Move Sprinklers with Gated Pipe,
W77-02198 1005 3F

Adaptation to Increasing Salinity of the Colorado River,
W77-02997 1006 3C

Hose or Pipe for Sprinkling or Irrigation,
W77-03864 1008 3F

Spraying Apparatus,
W77-05659 1012 3F

Sprinkler Adapted for Attachment to the Ground,
W77-08025 1016 3F

Easily Movable Irrigation Sprinkler System,
W77-08880 1018 3F

Irrigation Sprinkling Apparatus with Adjustable Ground Contacting Elements,
W77-08886 1018 3F

Rotary Water Sprinkler,
W77-08888 1018 3F

Sprinkler Having Improved Water Distribution,
W77-08899 1018 3F

Self-Regulating Sprinkler,
W77-09801 1020 3F

Rotary Sprinkler Particularly for Use with Low-Energy Water Jets,
W77-09802 1020 3F

Traveling Irrigation Sprinkler,
W77-09811 1020 3F

Remote Control for Large-Area Sprinkler Systems,
W77-09814 1020 3F

The Effectiveness of a Mist Versus a Low Pressure Sprinkler System for Bloom Delay,
W77-10165 1021 3F

A Water Sprinkler for Arbitrarily Shaped Areas,
W77-10166 1021 3F

Wind Effects on Water Application Patterns from a Large, Single Nozzle Sprinkler,
W77-10167 1021 3F

Quantification of Beneficial Effects of Sprinkler Irrigation Apart from Increase in Crop Yield, (In German),
W77-10726 1021 3F

Automatic Closure Valve for Water Sprinkler,
W77-10999 1022 3F

Brake Means for an Air-Powered Sprinkler System,
W77-11000 1022 3F

Reversible Self-Propelled Center Pivot Sprinkler System,
W77-11001 1022 3F

Efficiency of Sprinkler Irrigation Systems,
W77-11084 1022 3F

A Study of Salt Leaching by Ponding and Sprinkling in Unsaturated Soil Columns,
W77-11444 1022 3C

Non-Uniform Infiltration Under Potato Canopies Caused by Interception, Stemflow, and Hilling,
W77-11952 1023 3F

Yields and Sugar Content of Sugarbeets as Affected by Deficity High-Frequency Irrigation,
W77-11966 1023 3F

Sprinkler Application of P and ZN Fertilizers,
W77-12123 1023 3F

Seed Coating, Precision Planting, and Sprinkler Irrigation for Optimum Stand Establishment,
W77-12134 1023 3F

Scheduling Center Pivot Sprinkler Irrigation Systems for Corn Production in Eastern Colorado,
W77-12138 1023 3F

Florida Installation Disperses Effluents Via Irrigation System.
W77-12436 1024 5G

Land Application of Effluents in the Rocky Mountain-Prairie Region,
W77-12489 1024 5E

Sprinkler Uniformity Measures and Skewness,
W77-12505 1024 3F

Uniformity of Distribution in Undertree Irrigation in Orchards,
W77-12508 1024 3F

A Look at Crop Yields Along the Colorado in 2000 AD,
W77-12509 1024 3F

Operating Large Traveling 'Gun' Sprinklers in Winds,
W77-12511 1024 3F

Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

New 'Lateral Move' Sprinkler Cuts no Corners,
W77-12531 1024 3F

Uniform Slurry Spreading with a Center Pivot Irrigation System,
W77-12612 1024 5D

The Corner System - A Variable Radii Center Pivot System,
W77-12621 1024 3F

Very-Low-Pressure Sprinkle Irrigation,
W77-12624 1024 3F

Center-Pivot Irrigation System,
W77-12709 1024 3F

Sprinkler Method of Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-12840 1024 3F

SPRINKLERS

New 'Lateral Move' Sprinkler Cuts no Corners,
W77-12531 1024 3F

Very-Low-Pressure Sprinkle Irrigation,
W77-12624 1024 3F

SPRINKLING
A Water Sprinkler for Arbitrarily Shaped Areas,
W77-10166 1021 3F

Wind Effects on Water Application Patterns from a Large, Single Nozzle Sprinkler,
W77-10167 1021 3F

SPRINKLING SYSTEMS
Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

SQUALLS
Cloud Interaction and the Formation of the 15 June 1973 Tornado in the FACE Mesonetwork,
W77-01700 1004 2B

SQUAW CREEK (IA)
Flood Plain Information Report, Skunk River and Squaw Creek, Story County, Iowa.
W77-05289 1011 4A

SQUAWFISH
Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

SQUAXIN ISLAND INDIAN RESERVATION (WASH)
Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

SQUEEZER
A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

SQUID
Distribution of N-Parrafins in Selected Marine Benthic Organisms,
W77-12241 1023 5A

SQUIDS
The Cephalopoda. Part I: Oegopsida; Part II: Myopsida, Octopoda,
W77-03776 1008 2L

ST. ANSTELL BAY (U.K.)
The Effect of China Clay on the Fish of St. Austell and Mevagissey Bays,
W77-04049 1008 5C

ST. CLAIR RIVER (MICH)
Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Detroit and St. Clair River Transient Models,
W77-11659 1023 6A

ST. CROIX COUNTY (WIS)
Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

ST. CROIX ESTUARY (MAINE)
Heavy Metal Levels in Suspended Particulates, Biota, and Sediments of the St. Croix Estuary in Maine,
W77-04176 1009 5B

ST. CROIX (VIRGIN ISLANDS)
Waste Water Reclamation in St. Croix,
W77-07875 1016 5D

ST. FRANCIS RIVER (ARK)
The Effects of High Vacuum on Fish,
W77-07421 1015 5C

ST. GEORGE BASIN
Fault History of the Pribilof Island and Its Relevance to Bottom Stability in the St. George Basin,
W77-03256 1007 2L

ST. GEORGE SOUND (FLA)
Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

ST. JOHN RIVER BASIN (NEW BRUNSWICK
Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

ST. JOHN RIVER (FLA)
Environmental Impact Assessment, Water Quality Analysis, St. John River Estuary (Florida),
W77-01964 1004 5G

ST. JOHN RIVER (MAINE)
Environmental Impact Assessment, Water Quality Analysis, St. John River (Maine).
W77-01977 1004 5G

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-02151 1005 4A

ST. JOHNS RIVER BASIN (FL)
Socio-Economic Studies of the Upper St. Johns River Basin, Central and Southern Florida Flood Control District,
W77-11859 1023 6B

ST. LAWRENCE RIVER
Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

Characteristics of a Tide-Induced Estuarine Front,
W77-01619 1004 2L

Controlled Combustion Tests Carried Out Near Rimouski,
W77-02759 1006 5E

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

Dynamique de Degradation du Phenol Dans le Fleuve Saint-Laurent,
W77-03665 1008 5B

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

ST. LAWRENCE RIVER BASIN
Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

ST. LAWRENCE RIVER BASIN (OHIO)
Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

ST. LAWRENCE SEAWAY
Ice Flushing from St. Lawrence Seaway Locks; Hydraulic Model Investigation,
W77-02953 1006 8B

Great Lakes Compact Commission.
W77-03513 1007 6E

Runoff Regulation for Hydro-Power and Its Effect on the Ocean Environment,
W77-03974 1008 2E

Variations in Cd, Pb and Cu Content of Waters of the Lower Estuary of the Saint Lawrence During the Summer of 1972, (In French),
W77-04086 1008 5A

Force Measurements on a Navigable Ice Boom,
W77-11814 1023 2C

ST LOUIS HEIGHTS WATERSHED (HAWAII)
Urban Runoff Digital Computer Model,
W77-12316 1024 2E

ST. LOUIS (MO)
Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

ST. LOUIS RIVER
Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

ST LUCIA LAKE
The Benthos of Some Southern African Lakes Part 5: The Recovery of the Benthic Fauna of St Lucia Lake Following a Period of Excessively High Salinity,
W77-01439 1003 2H

ST. MARGARET'S BAY (NOVA SCOTIA)
Destructive Grazing of Kelp by Sea Urchins in Eastern Canada,
W77-03199 1007 5C

Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

ST THOMAS ISLAND
Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

ST. VENANT EQUATIONS
Hybrid Computer Model of St. Venant Equations,
W77-03832 1008 2E

STABILITY
Photolysis of 5-Chlorouracil in Natural Waters,
W77-03477 1007 5B

WATEQF-A Fortran IV Version of WATEQ, A Computer Program for Calculating Chemical Equilibrium of Natural Waters,
W77-04226 1009 7C

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

Profiles and Evaporation,
W77-06898 1014 2D

The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

Process Stability of Activity Sludge Processes,
W77-07857 1016 5D

Stability in Structure and Function of the Mud-Water Interface,
W77-07985 1016 5C

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

STABILITY CONSTANTS
Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

STABILIZATION
Decrease of Bacterial Content in Different Types of Stabilization Ponds,
W77-00080 1001 5D

A Study of Mixing Characteristics of Sewage Stabilization Ponds with Radioactive Tracers,
W77-03461 1007 5D

An Economic Evaluation of Deep Tank Aeration for Wastewater Treatment,
W77-03580 1007 5D

Sand Stabilization on the Dunes, Beach and Shoreface of a Historically Eroding Barrier Island. Wassaw Island Erosion Study, Part III,
W77-06940 1014 8G

Dune Stabilization with Panicum amarum Along the North Carolina Coast,
W77-07327 1015 2L

Dune Stabilization with Panicum Amarum Along the North Carolina Coast,
W77-08908 1018 2L

Animal Colonization of Man-Initiated Salt Marshes on Dredge Spoil,
W77-10035 1020 2L

Stabilization of Sand Dunes in the West Sahara,
W77-10074 1020 4A

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

STABILIZATION PONDS
Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

STABILIZED KRAFT MILL EFFLUENT
Effects of Kraft Mill Effluents on Juvenile Salmon Production in Laboratory Streams,
W77-05885 1012 5C

STABLE CHANNEL
Stability of Channel Beds by Amoring,
W77-03836 1008 8B

STAGE-DISCHARGE RELATIONS
Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

STAGNANT WATER
Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

STAINLESS STEEL
Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

STANDARD PROJECT FLOOD
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Flood Plain Information: Allegheny River, Forest County, Pennsylvania.
W77-09370 1019 4A

STANDARDS
Development of a Standard Rating for the Price Pygmy Current Meter,
W77-00432 1001 7B

The Dilemmas of Setting Sediment Standards,
W77-00806 1002 5G

Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Toxicity Index for Permits,
W77-01321 1003 5A

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

Manual of Water Well Construction Practices.
W77-01777 1004 8B

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Effects of Pollution on Human Health,
W77-02045 1004 6G

Economics of Environmental Control Policies,
W77-02047 1004 6G

Introductory Remarks on Environmental Control Strategies,
W77-02048 1004 6G

Government View,
W77-02051 1004 6G

Panel 'A' - Automotive Emissions,
W77-02052 1004 6G

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

Panel 'D' - Power Plant and Industrial Emissions and Effluents,
W77-02055 1004 6G

The Saga of the Environmental Standard,
W77-02060 1004 6G

National Effluent Standards,
W77-02061 1004 5G

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

Microbiological Examination of Waters and Effluents,
W77-03470 1007 5A

Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Proposed Toxic Pollutant Effluent Standards.
W77-03529 1007 5G

Marine Sanitation Device Standard.
W77-03531 1007 5G

Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

Examination of Environmental Policies Using Production and Pollution Microparameter Distributions,
W77-03961 1008 6G

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Butadiene Limitations, Guidelines and Standards; Amendment.
W77-04368 1009 5G

Mineral Mining and Processing Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources for Pretreatment Standards for Incompatible Pollutants.
W77-04374 1009 5G

Environmental Quality Standards Under Conditions of Uncertainty,
W77-04858 1010 6G

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

Standards for Interchange of Water Resources Data on Computer Media,
W77-05523 1011 7C

Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
W77-06056 1012 5G

The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

In Re City of White Bear Lake (Standard for Granting of Permits Under the Minnesota Water Management Law).
W77-08993 1018 6E

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Wetlands-Related Legislation in the United States,
W77-09324 1019 6E

Tanners' Council of America V Train (Review of Effluent Limitations for Tanning Industry).
W77-09578 1019 6E

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

Organic Chemicals Manufacturing Point Source Category, Proposed Effluent Guidelines and Standards.
W77-10472 1021 5G

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

E I Dupont De Nemours and Company v Train (Review of Effluent Limitations for Chemical Industry).
W77-11201 1022 6E

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

Texas Water Quality Act (Establishment of Water Quality Board).
W77-12909 1024 6E

STANDFORD WATERSHED MODEL

Application of a Parametric Model to Simulate Flows from an Urban Watershed,
W77-01339 1003 2A

STANDING CROP

The Ecology of Eelgrass, Zostera Marina (L.), Fish Communities. I. Structural Analysis,
W77-10244 1021 5C

STANDING CROPS

Cladophora in the Great Lakes,
W77-00928 1002 5C

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

The Growth and Distribution of Two Species of Laurencia, a Red Macroalga, in Card Sound, Florida,
W77-04578 1009 5C

The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

Effects of Zooplankton Grazing on Nuisance Algal Blooms,
W77-06398 1013 5C

A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

Algal Response to Nutrient Inputs in Some Iowa Lakes,
W77-07515 1015 5C

Phytoplankton Standing Crop and Sewage Nutrient Enrichment Along the Central Coast of Lebanon,
W77-08762 1018 5C

STANDING FISH CROP

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

STANDING (LEGAL)

United States Steel Corporation v Save Sand Key, Inc.: A Losing Battle in the Fight for Florida Beaches,
W77-01089 1003 6E

Pinellas County V. Lake Padgett Pines (Water Resources Act and Effect of Water Withdrawal Project),
W77-06574 1013 6E

Should Rivers Have Running. Toward Extension of the Reserved Rights Doctrine to Include Minimum Stream Flows,
W77-08372 1017 6E

Water Law in New Zealand,
W77-12883 1024 6E

STANDING WATERS

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

STANDING WAVES

Studies of Pressure and Energy of Standing Waves,
W77-10964 1022 8B

STANFORD WATERSHED MODEL

Representative and Experimental Basins - Where Next,
W77-07781 1016 2A

Application of Three Daily-Rainfall Runoff Models to Four Australian Catchments,
W77-08218 1017 2A

STARFISH

Effects of Combination of Temperature and Hydrostatic Pressure on Asterias rubens,
W77-07308 1015 5C

STARRY FLOUNDER

Fin Erosion Disease of Starry Flounder (Platichthys Stellatus) and English Sole (Parophrys Vetulus) in the Estuary of the Duwamish River, Seattle, Washington,
W77-04038 1008 5C

STARVATION

Changes in Behaviour During Starvation of Herring and Plaice Larvae,
W77-04540 1009 5C

STATE AGENCIES

Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

STATE AGENCY CONTACTS

Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

STATE ESTIMATION

Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

STATE GOVERNMENTS

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

Upper Niobrara River Compact.
W77-00988 1002 6E

1971 Water Resources Act.
W77-01002 1002 6E

Navigable Waters Protection Law.
W77-01009 1002 6E

STATE GOVERNMENTS

Idaho Water Resources Board v Kramer, Statutory Interpretation of Water Resources Board Comprehensive State Water Planning.
W77-01017 1002 6E

Shoreland Regulation in Wisconsin,
W77-01087 1003 6E

Minnesota Water Resources Board and Watershed Districts.
W77-02428 1005 6E

Proceedings of Seminar Sessions on State Water Supply Planning, Sept. - Oct. 1975, (Executive Summary).
W77-02618 1006 6B

Proceedings of Seminar Sessions on State Water Supply Planning (Sept.-Oct. 1975).
W77-02619 1006 6B

Compilation of State Data for Eight Selected Toxic Substances. Volume II, Directory of State Toxic Substances Monitoring Agencies,
W77-02642 1006 5G

Ditch Companies.
W77-03501 1007 6E

The Objectives, Part I of ter Plan, (Idaho Water Resources Board).
W77-03544 1007 6B

Water for Nevada. Water Planning Report.
W77-03545 1007 6B

Section 208 Program Review, (Environmental Protection Agency), (Draft).
W77-03686 1008 5D

Water Pollution Control Act of 1972, Economic Impacts, State and Local Revenue Expenditures.
W77-04305 1009 5G

Water Law and Administration in the United States,
W77-04356 1009 6E

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

The North Carolina Coastal Area Management Act -- A Program of State-Local Government Cooperative Planning in the Coastal Zone,
W77-04465 1009 2L

An Evaluation of Title III Water Resources Planning Grants in States,
W77-04902 1010 6E

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

Toward the True Meaning of the Public Trust,
W77-05039 1010 6E

Coastal Zone Management Act Amendments of 1976,
W77-05068 1010 6E

Implementation of the Coastal Area Management Act,
W77-05413 1011 6E

Treaties Concerning Colorado River,
W77-06075 1012 6E

State of Idaho, Interim State Water Plan, Preliminary Report.
W77-06358 1013 6B

Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

Summary Report Conclusions and Recommendations: Panhandle River Basins, State Water Plan--Part Two.
W77-06360 1013 6B

Report of a Study of Control Agency Revenue Fees,
W77-07435 1015 5G

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

Sovereignty and the Control of Water Pollution,
W77-08366 1017 5G

PL 92-500: New Federalism or Federal Takeover,
W77-08972 1018 6E

Wetlands-Related Legislation in the United States,
W77-09324 1019 6E

Water Pollution Control Across the Nation,
W77-11159 1022 5G

Regional Water Quality Control,
W77-11162 1022 6E

STATE JURISDICTION

Navigation Law, Section 89-b.
W77-01013 1002 6E

Energy and the Coastal Zone: Pulling and Hauling Among the Feds,
W77-01081 1003 6E

Florida's Slice of the Offshore Pie,
W77-04909 1010 6E

State v. Sieminski (State's Right to Regulate Scallop Fishing in the High Seas).
W77-06566 1013 6E

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

Allocating Buried Treasure: Federal Litigation Involving Interstate Ground Water,
W77-08491 1017 6E

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

The Effluent Limitations Controversy: Will Careless Draftmanship Foil the Objective of the Federal Water Pollution Control Act Amendments of 1972,
W77-10452 1021 5G

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

Artesian Wells.
W77-10500 1021 6E

State Protection from Oil Spills: Askew v American Waterways Operators, Inc.,
W77-11153 1022 6E

STATE LAND BOARD (UTAH)

Flood Control.
W77-09585 1019 6E

STATE MONITORING AGENCIES

Compilation of State Data for Eight Selected Toxic Substances, Vol. 1, Final Report,
W77-02204 1005 5G

STATE PARKS

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

STATE POLICY

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

STATE WATER QUALITY INVENTORY (DELAWARE)

Delaware 1975 State Water Quality Inventory,
W77-03378 1007 5G

STATES

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

STATIC CALCULATIONS

Static Calculation of Drainage Channels and Pipes (Die statische Berechnung von Entwasserungskanalen und-leitungen),
W77-09833 1020 8G

STATIC CULTURE SYSTEM

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

STATIC PRESSURE PROBES

The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

STATIONARY PROCESSES

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

STATIONS

Index of Surface Water Quality Records to September 30, 1973, Southwest Alaska,
W77-06328 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

Relocation of Buried Markers,
W77-08240 1017 2C

STATISTICAL ANALYSIS

Statistical, Meteorological and Depth-Area Analysis of Rainfall,
W77-00900 1002 2B

Correlation Analysis of Hydrometeorological Data,
W77-03086 1007 2A

Wet and Dry Periods of Annual Flow Series,
W77-03319 1007 2E

Multidimensional Statistic Modelling of Hydrological Processes on the Basis of Structural Analysis of the Empirical Hydrographs of Runoff,
W77-07662 1016 2A

STATISTICAL ANALYSIS OF SIGNIFICANCE

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

STATISTICAL METHODS

Hydrologic Engineering Methods for Water Resources Development, Volume 3, Hydrologic Frequency Analysis,
W77-00169 1001 4A

Research for the Development of Guidelines for Conducting and Analyzing an Environmental Water Quality Study to Determine Statistically Meaningful Results,
W77-00677 1002 7B

Accuracy of Evapotranspiration Rates Determined by the Water-Budget Method, Gila River Flood Plain, Southeastern Arizona,
W77-00868 1002 2D

Statistics: When Will We Ever Learn,
W77-00938 1002 7C

Statistical Sensitivity of Parameters in a Rainfall-Runoff Model,
W77-00948 1002 2A

Stochastic Characteristics of Sediment Motions,
W77-01140 1003 2J

Environmental Data Management,
W77-01347 1003 6G

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Correlation Analysis of Hydrometeorological Data,
W77-03086 1007 2A

A Preliminary Study of the Magnitude, Frequency and Distribution of Intense Rainfall in Nigeria,
W77-03756 1008 2B

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

Detection of Trends in Water Quality Data from Records with Dependent Observations,
W77-04753 1010 5A

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

Distribution Functions for Statistics Derived from Bivariate Normal and Bivariate Two-Parameter Log-Normal Populations,
W77-04978 1010 2E

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

Peak Discharge Frequency from Rainfall Information,
W77-05359 1011 2B

Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

An Application of Systematic Sampling to a Study of Infauna Variation in a Soft Substrate Environment,
W77-05863 1012 5A

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

Missouri River Power Curve Regression Equations,
W77-07152 1015 2E

Similarities and Differences in the Chemical Composition of Waters from West, Central, and East Africa,
W77-07510 1015 5A

Investigations on the Structure of Frequency Distributions of Floods,
W77-07649 1016 2E

Bayesian Estimation of Frequency of Hydrological Events,
W77-07650 1016 2E

Spatial and Time Analysis and Estimation of River Flow,
W77-07654 1016 2E

Elements of Runoff Periodicity in Tasks of Modelling,
W77-07655 1016 2E

New Forms of Correlation Relationships Between Positive Quantities Applied in Hydrology,
W77-07659 1016 2A

Multidimensional Statistic Modelling of Hydrological Processes on the Basis of Structural Analysis of the Empirical Hydrographs of Runoff,
W77-07662 1016 2A

Significance Tests of Periodicity in Hydrological Time Series,
W77-07665 1016 2A

Missouri Stream and Springflow Characteristics Low-Flow Frequency and Flow Duration,
W77-08743 1018 2E

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

Precipitation Trend and Storm Analysis in Colorado.
W77-09685 1020 2C

Analysis of Data from Biological Surveys of Streams: Diversity and Sample Size,
W77-09778 1020 5A

The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

Application of Some Statistical Methods for the Estimation of Minimum Flow,
W77-10420 1021 2E

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

Statistical Modelling of River Flow by the Monte Carlo Method and Evaluation of Distribution Parameters and Quantities,
W77-10433 1021 2E

Generation of Hydrologic and Water Resources Samples,
W77-10441 1021 2A

Statistical Applications in Groundwater Systems,
W77-10789 1021 2F

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

Appendix V. Shoreline Damage Survey: An Appraisal with Recommendations,
W77-10904 1022 2H

Advances in Box-Jenkins Modeling, 1. Model Cconstruction,
W77-11214 1022 2A

Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

Methods for the Evaluation of the Results of the Self-Control-Measurements Carried Out By the Sewage Treatment Plant Operators (Verfahren zur Auswertung der Betriebsergebnisse von Klaerwerken),
W77-11734 1023 5A

Crustacean Zooplankton Communities as Indicators of Limnological Conditions: An Approach Using Principal Component Analysis,
W77-12029 1023 5A

STATISTICAL MODELS

Pore Volume Distribution and Curve of Water Content Versus Suction of Porous Body: 2. The Boundary Wetting Curve,
W77-00162 1001 2G

Research for the Development of Guidelines for Conducting and Analyzing an Environmental Water Quality Study to Determine Statistically Meaningful Results,
W77-00677 1002 7B

An Experiment in the Production of 'POP' Forecasts Using a Statistical Model,
W77-00889 1002 2B

A Comparison of Modeling and Statistical Evaluation of Hydrologic Change,
W77-03800 1008 4D

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Predictive Water Demand Model for Central and Southern Florida,
W77-06047 1012 6D

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Some Applications of Stochastic Flow Generation,
W77-07647 1016 2A

Stochastic Structure of a Process of Average Monthly Flows,
W77-07651 1016 2E

Methods for the Mathematical Description of the Structure of River Runoff Variations,
W77-07652 1016 2E

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

Statistical Modelling of River Flow by the Monte Carlo Method and Evaluation of Distribution Parameters and Quantities,
W77-10433 1021 2E

Advances in Box-Jenkins Modeling, 1. Model Cconstruction,
W77-11214 1022 2A

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

Effect of Misestimating Harmonics in Periodic Hydrologic Parameters,
W77-12550 1024 2E

STATISTICS

Evaporation Measurements with a Self-Recording Evaporigraph,
W77-01331 1003 2D

National Environmental Statistical Report,
W77-02447 1005 7C

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Sinepower Probability Density Function,
W77-04276 1009 2E

An Application of Computer Graphics to Analysis of Extremes,
W77-05164 1011 2E

Evidence for Nonstationarity as a Physical Explanation of the Hurst Phenomenon,
W77-05165 1011 2B

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

Comparison Between Sieving and Settling-Tube Determinations of Sand Sizes by Using Discriminant Analysis,
W77-06319 1013 2J

Smoothing Data with Cubic Splines,
W77-06831 1014 7C

Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

STATUTE OF LIMITATIONS

Duckett V Brooks (Admissibility of Evidence Showing Condition of Land Prior to Period for Which Damages are Recoverable).
W77-06064 1012 6E

STEADY FLOW

Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

Transverse Mixing in Natural Channels,
W77-02313 1005 2E

Hydraulic Characteristics of Rigolets Pass, Louisiana, Hurricane Surge Control Structures; Hydraulic Model Investigation,
W77-02932 1006 8B

Non-Penetrating Well in a Semi-Infinite Medium with Non-Linear Flow,
W77-09114 1019 2F

A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow 1. Theory and Numerical Properties,
W77-10008 1020 2F

STEADY-STATE CIRCULATION

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

STEADY-STATE FLOW

Aquifer Management under Transient and Steady-State Conditions,
W77-01169 1003 4B

STEAM

How to Reduce Steam Consumption in the Paper Mill Machine Room,
W77-04822 1010 3E

Guidelines for the Preparation of Environmental Reports for Fossil-Fueled Steam Electric Generating Stations,
W77-06918 1014 6G

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

STEAM ELECTRIC POWER INDUSTRY

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

STEAM GENERATING STATIONS

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

STEAMBOAT CREEK (NV)

Flood Plain Information: Steamboat Creek and Tributaries, Steamboat and Pleasant Valleys, Nevada.
W77-04215 1009 4A

STEAMBOAT SPRINGS (CO)

Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

STEAMS

The Decomposition of Leaves in Two Southern California Streams,
W77-03829 1008 5B

STEEL

Fight Against Pollution and Nuisances in the French Steel Industry (Lutte contre les pollutions et nuisances dans la siderurgie Francaise),
W77-00749 1002 5D

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

Effluent Guidelines and Standards for Iron and Steel Manufacturing Point Source Category.
W77-08986 1018 5G

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

STEEL INDUSTRY (INDIA)

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

STEEL PIPES

Large-Diameter Corrugated Steel Pipe Enters Storm Sewer Field.
W77-00074 1001 5D

Cementing Oil and Gas Wells, Part 2 - Casing Inspection and Pipe Handling Methods, Including Thread Make-Up Control,
W77-08327 1017 8F

Drill String Makeup, Past, Present, Future,
W77-08648 1018 8C

STEEL STRUCTURES

Glass Coated Steel Tanks.
W77-02361 1005 8G

STEELHEAD

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

STEELHEAD TROUT

A Summary of the 1969 and 1970 Outmigration of Juvenile Chinook Salmon and Steelhead Trout from the Snake River,
W77-05419 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead

Trout of the Snake and Columbia Rivers (A Review of the Problem and the Progress Toward a Solution, 1974),
W77-06927 1014 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

The Effects of Granitic Sand on the Distribution and Abundance of Salmonids in Idaho Streams,
W77-09797 1020 2I

STEELWORKS EFFLUENTS
Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

STEFFEN FILTRATE
Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

STEMFLOW
Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

STENDOUS-LEUCICHTHYS-NELMA
Presence of Spring and Winter Races of the Nelma in the OB River, (In Russian),
W77-00057 1001 2I

STENOHALINITY
The Influence of Salinity on the Growth of Some Plankton Diatoms from Brackish Water,
W77-10146 1021 5C

STEP ERRORS
Criterion to Choose Step Length for Some Numerical Methods Used in Hydrology,
W77-09110 1019 2E

STEPHANODISCUS-HANTZSCHII
The Decomposition Rate of Organic Matter of Stephanodiscus Hantzschii Grun. From the Channel of the Northern Donets Basin, (In Russian),
W77-12971 1024 5B

STERILANT
Survival of Two Bacterial Fish Pathogens (Aeromonas Salmonicida and the Enteric Redmouth Bacterium) in Ozonated, Chlorinated, and Untreated Waters,
W77-12659 1024 5C

STERILANTS
Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

STERILIZATION
Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

STEROIDS
Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

STEVENS CREEK (NB)
Flood Plain Information: Metropolitan Region, Lincoln, Nebraska, Volume III, Summary Report, Little Salt, Oak, Salt, and Stevens Creek, Salt Creek Basin.
W77-03181 1007 4A

STEWART'S DARK LAKE (WIS)
Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

STICKLEBACKS
The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

STILLING BASINS
Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Old River Existing Low-Sill Control Structure, Louisiana; Hydraulic Model Investigation,
W77-10018 1020 8B

Sluice Pressures, Gate Vibrations and Stilling Basin Wall Pressures Libby Dam, Kootenai River, Montana,
W77-10045 1020 8B

STILLWATER (OKLA)
Comparison of Chute and Stilling Basin Performance for Three Different Drop Box Inlets,
W77-01151 1003 8B

STILLWATER RIVER (ME)
Flood Plain Information: Penobscot and Stillwater Rivers, Old Town and Milford, Maine.
W77-11846 1023 4A

STIZOSTEDION VITREUM
Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

STOCHASTIC MODEL
A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

STOCHASTIC MODELING
Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

STOCHASTIC MODELS
A Stochastic Model for the Simulation of Daily Flows,
W77-11603 1023 2E

STOCHASTIC PROCESSES
Economic Optimum Record Length,
W77-00117 1001 4A

Stochastic Structure of Cloud and Radiation Fields,
W77-01640 1004 2B

A Stochastic Sediment Yield Model for Bayesian Decision Analysis Applied to Multipurpose Reservoir Design,
W77-01892 1004 4D

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

Stochastic Models of Sediment Motion on Flat Bed,
W77-03997 1008 2J

Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

Stochastic Modelling of the Effects of Reservoir Operation,
W77-05145 1011 4A

A Point Stochastic Model for Continental Droughts,
W77-05183 1011 2B

A Stochastic Point-Process Model for the Occurrence of Major Freezes in Lake Constance,
W77-05242 1011 2C

Rainfall Network Design for Runoff Prediction,
W77-05341 1011 2B

The Asymptotic Distribution of the Range and Other Functions of Partial Sums of Stationary Processes,
W77-05347 1011 4A

A Stochastic Approach to Space-Time Modeling of Rainfall,
W77-05730 1012 2A

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Discrete Representation of Storage for Stochastic Reservoir Optimization,
W77-05921 1012 4A

Stochastic Properties of Daily Temperature in Rivers,
W77-07159 1015 5B

Reliability-Constrained Dynamic Programing and Randomized Release Rules in Reservoir Management,
W77-07535 1015 4A

Stochastic Analysis of Velocity Fluctuations in a Natural Stream Channel,
W77-07648 1016 2E

Simulation of Daily Rainfall Series Using Markov Chain Models,
W77-07660 1016 2A

Stochastic Analysis of Short-Time Rainfalls,
W77-07671 1016 2B

Emptiness of a Finite Dam--Time Dependent Theory,
W77-07683 1016 8B

Some Problems of Stochastic Storage with Correlated Inflow,
W77-07689 1016 4A

Optimal Engineering Design Under Uncertainty by Geometric Programming,
W77-08040 1016 8C

Point Stochastic Analysis of Daily Rainfall Occurrence with Application to Indiana,
W77-08935 1018 2B

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

Optimal Operation of Flood Control Systems, (Final Report; V.II),
W77-09927 1020 4A

Stochastic Models for Precipitation,
W77-10180 1021 2B

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

Analysis of the Stochastic Coincidence of Certain Hydrological Processes,
W77-10299 1021 2E

A Stochastic Model for the Simulation of the Temperature of a Watercourse,
W77-10300 1021 2A

Stochastic Identification of Nonlinear Hydrological Systems,
W77-10431 1021 2A

Stochastic Approaches to Water Resources, Volumes I and II,
W77-10439 1021 6A

Structure of Natural Hydrologic Time Processes,
W77-10440 1021 2A

Generation of Hydrologic and Water Resources Samples,
W77-10441 1021 2A

Data Collection, Analysis and Instrumentation,
W77-10442 1021 2A

Long-Range Changes,
W77-10443 1021 2A

Some Remarks on the Statistical Theory of Extreme Values,
W77-10786 1021 2A

Stochastic Structures of the Local Pattern of Precipitation,
W77-10787 1021 2B

Floods and Droughts,
W77-10788 1021 2E

Modeling of Stream Geometry and Its Applications,
W77-10791 1021 2E

Stochastic Aspects of Incipient Grain Motion on Riverbeds,
W77-10792 1021 2J

Sediment Transport Models,
W77-10793 1021 2J

Deterministic and Stochastic Approaches for Modelling of Longitudinal Dispersion in a Turbulent Open Channel Flow,
W77-10794 1021 5B

Dispersion of Sediment Particles,
W77-10795 1021 2J

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

Reservoirs with Seasonally Varying Markovian Inflows, and Their First Passage Times,
W77-10836 1022 2E

Seasonal and Nonseasonal ARMA Models in Hydrology,
W77-10843 1022 2A

A Stochastic Model for the Simulation of Daily Flows,
W77-11603 1023 2E

Effect of Misestimating Harmonics in Periodic Hydrologic Parameters,
W77-12550 1024 2E

Stochastic Approach to the Colorado River Basin,
W77-12724 1024 4D

STOCHASTIC PROGRAMMING

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

STOCHASTIC QUADRATIC PROGRAMMING

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

STOCK RAISING

Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

STOCK WATER

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

STOCKASTIC PROCESSES

A New Stochastic Approach to Foundations of Deterministic Transport Equations for Porous Media,
W77-04143 1009 2G

STOCKHOLM ARCHIPELAGO (SWEDEN)

Pike as the Test Organism for Mercury, DDT and PCB Pollution. A Study of the Contamination in the Stockholm Archipelago,
W77-04569 1009 5C

STOCKHOLM CONFERENCE OF THE HUMAN ENVIRONMENT

Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

STOCKING

Mc Clellan V Jantzen (Stocking of Fish not an Act of Appropriation Giving Vested Right in Water Stocked).
W77-00997 1002 6E

STOCKTON (CA)

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

STOKES WAVES

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

STOLONS

On the Influence of Water Currents on the Growth of Hydrorhizal Colonies, (In German),
W77-00506 1001 2I

STOMATA

Maximizing Stomatal Control and Root System to Optimize Water-Use Efficiency in Soybeans,
W77-02077 1005 3F

Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

Water Stress Induced Alterations of the Stomatal Response to Decreases in Leaf Water Potential,
W77-03140 1007 2I

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

Some Aspects of Comparative Leaf Anatomy of Species of Bromeliaceae (Aechmea Mexicana Bakor and Hechtia Glomerata Zucc., (In Spanish),
W77-04581 1009 2D

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

Effects of Plant Water Status on Stomatal Activity, Photosynthesis, and Nitrate Reductase Activity of Field Grown Cotton,
W77-11098 1022 2I

Seasonal Variations in Stomatal Resistance in Cotton,
W77-11108 1022 3F

Stomatal Response to Leaf Water Potential as Affected by Preconditioning Water Stress in the Field,
W77-11959 1023 3F

STOMATAL RESISTANCE

Seasonal Variations in Stomatal Resistance in Cotton,
W77-11108 1022 3F

STOMATAL SENSITIVITY

Sorghum Genotype Variation in Stomatal Sensitivity to Leaf Water Deficit,
W77-09303 1019 2I

STONE

People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

STONE LOACH

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

STONEFLIES
The Influence of Temperature on the Bioenergetics of the Carnivorous Stonefly Nymph, Acroneuria California Banks (Plecoptera: Perlidae),
W77-03641 1008 5C

Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

On the Aquatic Insect Communities in Shore Zones and Influents as Well as Effluents of Lakes in Shinshu, (In Japanese),
W77-10949 1022 2H

STONEHOUSE COVE (MD)
Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

STONY RUN CREEK (VA)
Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

STOPPING RULES
Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

STORAGE
Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

Prediction of Nitrogen Transformations in the Storage Lagoon of a Land Treatment System,
W77-08624 1018 5D

Problems of Heat Storage in Aquifers,
W77-10332 1021 5B

Demonstration of Void Space Storage with Treatment and Flow Regulation.
W77-10532 1021 5F

Head Gradient Control in Aquifers Used for Fluid Storage,
W77-12800 1024 4B

STORAGE CAPACITY
Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

STORAGE COEFFICIENT
A Chart for Reservoir Yield Estimation Based on the Markov Process,
W77-01445 1003 4A

Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

Pumping Tests Provide Useful Data, Part II,
W77-10530 1021 8B

STORAGE CONTAINERS
Suitability of Containers for Storage of Water Samples,
W77-00436 1001 5A

STORAGE REQUIREMENTS
Operational Assessment of Hydrologic Models of Long-Term Persistence,
W77-05957 1012 2E

Storage of Wastes from Watercraft and Disposal at Shore Facilities,
W77-06201 1013 5D

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

STORAGE TANKS
Glass Coated Steel Tanks.
W77-02361 1005 8G

Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

STORM DRAINS
Large-Diameter Corrugated Steel Pipe Enters Storm Sewer Field.
W77-00074 1001 5D

A Regional Stormwater Drainage Model,
W77-00940 1002 4A

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

Norman and Schaen, Inc V Dallas (Without Causing Increase in Water Flow Across Property, City Not Responsible for Faulty Drainage System).
W77-00995 1002 6E

Urban Storm Water Runoff: A Two-Fold Problem,
W77-01098 1003 6E

Characterization of Urban Runoff,
W77-02180 1005 5B

The Design and Test of a Safe and Effective Storm-Sewer Inlet,
W77-02186 1005 8B

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

Application of a Model for Layout and Design of Sewer Systems,
W77-03133 1007 5B

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Short Course Proceedings: Applications of Stormwater Management Models.
W77-04730 1010 5B

Environmental Impact of Urban Stormwater Runoff,
W77-04731 1010 5B

Comparative Analysis of Urban Stormwater Models,
W77-04743 1010 5B

Advanced Methodologies for Design of Storm Sewer Systems,
W77-05927 1012 5D

Industry Monitors County Storm Sewer Water,
W77-07933 1016 5D

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

The Effect of Surcharging on Discharge Through a Pipe,
W77-08644 1018 8B

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Urban Runoff and Combined Sewer Overflow,
W77-10600 1021 4A

Pesticide Residue Analysis of Storm-Drain Waters, 1975,
W77-10933 1022 5A

Hydraulic Characteristics of Reticular Inlet Grates,
W77-10990 1022 8C

Countermeasures for Pollution from Overflows; The State of the Art,
W77-12497 1024 5G

STORM FREQUENCY
Pollution Probability Estimated by Small Storm Frequency,
W77-12620 1024 5B

STORM HYDROGRAPH
Effects of Antecedent Soil Moisture on Storm Hydrographs,
W77-05603 1012 2A

STORM RUNOFF
Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

An Overview of Urban Sedimentology,
W77-00491 1001 4C

Computerized City-Wide Control of Urban Stormwater,
W77-00634 1002 5G

Planning for Storm Water Management,
W77-00770 1002 6F

Evaluation of Alternative Methods of Supplemental Recharge by Storm-Water Basins on Long Island, New York,
W77-00853 1002 4B

Dize Awning and Tent Co V Winston-Salem (Right to Increase Rate of Flow from Creek Watershed Under Easement of Servitude).
W77-00994 1002 6E

Norman and Schaen, Inc V Dallas (Without Causing Increase in Water Flow Across Property, City Not Responsible for Faulty Drainage System).
W77-00995 1002 6E

Urban Storm Water Runoff: A Two-Fold Problem,
W77-01098 1003 6E

Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

Preliminary Selection of Storm-Water Basins Suitable for Infiltration of Reclaimed Water in Nassau County, Long Island, New York,
W77-02322 1005 5G

Sampling and Analysis of Stormwater Runoff from Urban and Semi-Urban/Rural Watersheds - Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities,
W77-02995 1006 5B

Stormwater Management Looks to Natural Drainage.
W77-04653 1010 4A

Why Simulation,
W77-04725 1010 2E

Quantity Aspects of Urban Stormwater Runoff,
W77-04732 1010 4A

Impact of Stormwater Runoff on Receiving Water Quality,
W77-04734 1010 5B

Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

On the Derivation of Linkage Equations for Laguerre Function Coefficients,
W77-05794 1012 2B

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
W77-05931 1012 5B

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Pros and Cons of Storm Water Recharge Wells,
W77-06324 1013 5B

Sediment Discharge from an Area of Highway Construction, Applemans Run Basin, Columbia County, Pennsylvania,
W77-06969 1014 4C

London's Stormwater Problem,
W77-06983 1014 5D

Sediments and Water Quality of Urban Storm Water,
W77-06984 1014 5B

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

Introduction to Urban Storm Water Runoff Models,
W77-07071 1014 5B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-07072 1014 5B

The WRE Storm Model,
W77-07073 1014 5B

On-Line Adaptive Control for Combined Sewer Systems,
W77-07100 1014 5D

Penn State Urban Runoff Model--User's Manual,
W77-07797 1016 4D

Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

Predicting Stormflow and Peakflow from Small Basins in Humid Areas by the R-Index Method,
W77-09334 1019 4A

Design and Operation of Rain Spillways and Rain Overflow Catchment (Entwurf and Betrieb von Regenuberlaufen (Ru) und Regenuberlaufbecken (RUB),
W77-09822 1020 8B

Problems and Policy Alternatives: Urban Areas,
W77-10160 1021 5G

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Urban Runoff and Combined Sewer Overflow,
W77-10600 1021 4A

Storm Management Program is Model for Others,
W77-10612 1021 4A

The Investigation of Sewer Networks by Computer,
W77-11670 1023 5G

The Swirl Concentrator for Erosion Runoff Treatment,
W77-12080 1023 5D

Digital Simulation of a Drainage Basin,
W77-12082 1023 2A

Performance of Storm Drainage Simulation Models,
W77-12411 1024 5D

Storm Water Management Model: Level I - Preliminary Screening Procedures,
W77-12476 1024 5B

Urban Runoff Characteristics: Volume II - Field Investigations,
W77-12478 1024 5B

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

STORM SEWERS

Risk-Safety Factor Relation for Storm Sewer Design,
W77-02551 1005 5D

STORM STRUCTURE

Determination of Storm Velocities as an Aid to the Quality Control of Recording Raingauge Data,
W77-05146 1011 2B

STORM SURGE

A Sheared Coordinate System for Storm Surge Equations of Motion with a Mildly Curved Coast,
W77-02674 1006 2B

Storm Surges in the Southern Beaufort Sea,
W77-03986 1008 2L

Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

Application of a Three-Dimensional Model to Computations of Storm Surges in the Black Sea,
W77-04260 1009 2B

Model of Hurricane Tide in Cape Fear Estuary,
W77-04898 1010 2L

STORM SYNTHESIS

Hydrologic Engineering Methods for Water Resources Development, Volume 5, Hypothetical Floods,
W77-03104 1007 8B

STORM TIDES

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

STORM TRACKS

A Sheared Coordinate System for Storm Surge Equations of Motion with a Mildly Curved Coast,
W77-02674 1006 2B

STORM TRANSPORTATION

Hydrologic Engineering Methods for Water Resources Development, Volume 5, Hypothetical Floods,
W77-03104 1007 8B

STORM VELOCITY

Determination of Storm Velocities as an Aid to the Quality Control of Recording Raingauge Data,
W77-05146 1011 2B

STORM WATER

Urban Stormwater Detention and Flow Attenuation,
W77-00078 1001 5D

Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

Planning for Storm Water Management,
W77-00770 1002 6F

Rainfall Erosivity over Rhodesia.
W77-01901 1004 2J

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Stormwater Studies and Alternatives in Atlanta,
W77-02073 1004 5B

Analysis of Storm Water Seepage Basins in Peninsular Florida,
W77-02083 1005 5G

Emergency Repair of a Deep Storm Sewer Line,
W77-02350 1005 8G

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Storm Water Management Model Study, Volume I.
W77-02743 1006 5B

Storm Water Management Model Study, Volume II.
W77-02744 1006 5B

Practices, Policies and Technology of Storm and Combined Sewers in Foreign Countries.
W77-02767 1006 5G

Stormwater Management Looks to Natural Drainage.
W77-04653 1010 4A

Stormwater Tunnel Cuts Drainage Costs.
W77-04654 1010 5D

Impact of Stormwater Runoff on Receiving Water Quality,
W77-04734 1010 5B

Introduction to Urban Stormwater Runoff Models,
W77-04735 1010 5B

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
W77-05369 1011 5B

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Quality Characteristics of Urban Storm Water in Sydney, Australia,
W77-05963 1012 5B

London's Stormwater Problem,
W77-06297 1013 5B

An Executive Summary of Three EPA Demonstration Programs in Erosion and Sediment Control,
W77-06671 1014 5G

London's Stormwater Problem,
W77-06983 1014 5D

Time-Distribution of Storm Rainfall in Pennsylvania,
W77-07022 1014 2B

Treatment of Combined Sewer Overflows Via Thin Film Chemistry,
W77-07034 1014 5D

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

Integrated Approach to Urban Waste Water Management,
W77-07095 1014 5D

On-Line Adaptive Control for Combined Sewer Systems,
W77-07100 1014 5D

Penn State Urban Runoff Model--User's Manual,
W77-07797 1016 4D

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

Efficient Storage of Urban Storm Water Runoff,
W77-09171 1019 5D

Storm Water Management Model: Level I--Comparative Evaluation of Storage-Treatment and Other Management Practices,
W77-09824 1020 5D

Nationwide Evaluation of Combined Sewer Overflows and Urban Stormwater Discharges. Volume II: Cost Assessment and Impacts,
W77-09874 1020 5D

Problems and Policy Alternatives: Urban Areas,
W77-10160 1021 5G

Optimal Systems of Storm Water Detention Basins in Urban Areas,
W77-10184 1021 4D

Proceedings of Workshop on Microorganisms in Urban Stormwater,
W77-11489 1022 5A

Microorganisms in Urban Stormwater -- A U.S. Environmental Protection Agency Program Overview,
W77-11490 1022 5A

Experiences with Recovery of Viruses from Storm Water,
W77-11492 1022 5D

Planning for Urban Stormwater Control,
W77-11669 1023 5G

Potential Value of Treatment of Urban Stormwater,
W77-11675 1023 5G

Water-Quality Effects from Urban Runoff,
W77-11676 1023 5C

Short Course Proceedings - Applications of Stormwater Management Models, 1976,
W77-12074 1023 6A

Methodology for Evaluating the Cost of Urban Stormwater Quality Management,
W77-12075 1023 6B

Storm Water Management Model: Level I - Preliminary Screening Procedures,
W77-12476 1024 5B

Urban Runoff Characteristics: Volume I - Analytical Studies,
W77-12477 1024 5B

Urban Runoff Characteristics: Volume II - Field Investigations,
W77-12478 1024 5B

Cost Estimating Manual--Combined Sewer Overflow Storage and Treatment,
W77-12494 1024 5D

Catchbasin Technology Overview and Assessment,
W77-12495 1024 5D

Countermeasures for Pollution from Overflows; The State of the Art,
W77-12497 1024 5G

Water Quality, Conduits, and Geometrics.
W77-12499 1024 8F

Quality of Urban Freeway Storm Water,
W77-12500 1024 5B

Storm Water Management Model Study, Volume III, User's Manual.
W77-12792 1024 5B

STORM WATER COMPOSITION

Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
W77-09046 1018 5B

STORM WATER MANAGEMENT MODEL

Three Case Studies on the Application of the Storm Water Management Model,
W77-07955 1016 5B

STORM WATER MANAGEMENT MODEL (SWMM)

Storm Water Management Model Study, Volume II.
W77-02744 1006 5B

The EPA Stormwater Management Model,
W77-04738 1010 5B

Planning a Study Using Stormwater Management Models,
W77-04741 1010 5B

STORM WATER MANAGEMENT PLAN

Planning for Storm Water Management,
W77-00770 1002 6F

STORMFLOW

Program Hopes to Reduce Pollution from Sewer Overflow.
W77-10547 1021 5B

STORMS

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

Prediction of Infiltration into Layered Field Soils in Relation to Profile Characteristics,
W77-01625 1004 2G

A Sheared Coordinate System for Storm Surge Equations of Motion with a Mildly Curved Coast,
W77-02674 1006 2B

Hydrologic Engineering Methods for Water Resources Development, Volume 5, Hypothetical Floods,
W77-03104 1007 8B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

Augmentation of 1968-1972 Winter Storms in New Mexico,
W77-03838 1008 3B

Uncertainty in the Return Period of Maximum Hydrologic Events: A Bayesian Approach,
W77-03972 1008 2A

A Variable Source Area Model of the Rainfall-Runoff Process Based on the Watershed Stream Network,
W77-05178 1011 2A

Time-Distribution of Storm Rainfall in Pennsylvania,
W77-07022 1014 2B

Characteristics of the Severe Rainstorm,
W77-07784 1016 2B

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

Precipitation Trend and Storm Analysis in Colorado.
W77-09685 1020 2C

The Big Thompson River Flood of July 31-August 1, 1976, Larimer County, Colorado,
W77-10859 1022 2E

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

Continental Shelf Currents in Tropical Storm Delia: Observations and Theory,
W77-12298 1024 2L

Application of a 'Radiation-Type' Boundary Condition to the Wave-Porous Problem,
W77-12911 1024 2L

STORMWATER
Kerbs and Channels,
W77-01389 1003 8F

STRAIN GAGES
Strain Meters and Stress Meters for Embedment in Models of Mass Concrete Structures; Report 2, Evaluation of Microdot Embedment Strain Gage,
W77-10785 1021 8G

STRAIN MEASUREMENT
Vertical Strain-Rate Measurements in an Arctic Ice Cap and Deductions from Them,
W77-08226 1017 2C

STRAIT OF CANSO
Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

STRAIT OF CANSO (CANADA)
Geochemical Interaction in the Recently Industrialized Strait of Canso,
W77-03649 1008 5B

STRAIT OF GEORGIA
The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

STRAIT OF GEORGIA (CANADA)
Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

Numerical Model Studies of the Tides Between Vancouver Island and the Mainland Coast,
W77-03984 1008 2L

STRAIT OF JUAN DE FUCA
A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

STRAIT OF MAGELLAN
The Metula Oil Spill,
W77-02679 1006 5C

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

STRAITS
Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

Numerical Model Studies of the Tides Between Vancouver Island and the Mainland Coast,
W77-03984 1008 2L

Oceanographic Features, Currents, and Transport in Cabot Strait,
W77-08851 1018 2L

Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

Biological, Chemical and Physical Relationships in the Straits of Mackinac,
W77-10058 1020 5C

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

STRAITS OF MACKINAC
Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

STRAITS OF MACKINAC (LAKE MICHIGAN-LAKE HURON)
Biological, Chemical and Physical Relationships in the Straits of Mackinac,
W77-10058 1020 5C

STRASBOURG (FRANCE)
Study of Free Living Amoebae in the Waters of Strabourg: Preliminary Report, (In French),
W77-08016 1016 5A

STRATHCONA SOUND
Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

STRATHROY (ONTARIO)
Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

STRATIFICATION
Stratified Waters as a Key to the Past,
W77-00659 1002 2J

Demonstration of Water Quality Enhancement Through the Use of the Garton Pump,
W77-00669 1002 5G

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Mass and Salt Transfers and Halocline Depths in an Estuary,
W77-03751 1008 2L

Stability of the Oxygen Stratification in a Eutrophic Lake,
W77-05224 1011 5C

Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

The Influence of Spring Circulation on Zooplankton Dynamics in the Plussee,
W77-07518 1015 5C

Methodology for Applying the Finite Element Method to Partially Stratified Estuaries,
W77-08198 1017 2L

Seepage Under Structure on N Strata of Soil,
W77-08843 1018 2F

Induced Vertical Mixing in a Stratified Impoundment by a Subsurface Warm Water Discharge,
W77-08929 1018 5B

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

The Zooplankton of Msikaba Estuary,
W77-10214 1021 2L

Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

STRATIFIED ESTUARIES
Evaluation of Circulation in Estuaries,
W77-02456 1005 2L

STRATIFIED FLOW
B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Numerical Model of Stratified Estuary Flows,
W77-05804 1012 2L

Methodology for Applying the Finite Element Method to Partially Stratified Estuaries,
W77-08198 1017 2L

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

STRATIFIED WATER
Laboratory Study of Unsteady Energy Transfer in Surface Layers of Stratified Water,
W77-06006 1012 2H

STRATIFIED WATER COLUMN
Mineral Distribution Within the Sediments of Pearl Harbor,
W77-08815 1018 2L

STRATIGRAPHIC SEQUENCES
Internal Sedimentary Structures, Vertical Stratigraphic Sequences, and Grain-size Parameter Variations in a Transgressive Coastal Barrier Complex: The Atlantic Coast of Delaware,
W77-11663 1023 2J

STRATIGRAPHY
Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Stratigraphy of the Paleocene and Lower Part of the Eocene in Western Tennessee,
W77-02315 1005 2F

Stratigraphy and History of Development of the Voitovtsovsk Bog in the Vinnitsa Oblast, (In Ukrainian),
W77-02922 1006 2H

Nile Cone: Late Quaternary Stratigraphy and Sediment Dispersal,
W77-06650 1014 2L

Study of an Ice Core to the Bedrock in the Accumulation Zone of an Alpine Glacier,
W77-08846 1018 2C

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

STRATIOTES
Analysis of the Macrofauna-Community on Stratiotes Vegetations,
W77-09489 1019 5C

STRAW
Conditions of the Emergence of Soil Toxicity During Application of Straw and Flooding, (In Russian),
W77-12983 1024 2G

STREAFLOW FORESCATING
Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

STREAM-AQUIFER INTERACTIONS
Integral Equation for the Description of Stream-Aquifer Interaction,
W77-09092 1018 2F

STREAM-AQUIFER MODELS
Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

STREAM BANK EROSION
Storm Management Program is Model for Others,
W77-10612 1021 4A

STREAM BEDS
Navigable Waters (Aquisition, Title and Conveyance).
W77-06083 1012 6E

STREAM CHANNELIZATION
Environmental Impact of Stream Channelization,
W77-00375 1001 6G

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

STREAM EROSION
Integral-Equation Analysis of Flows Over Eroding Beds,
W77-00682 1002 2J

Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

Effects of Change in Stream Regimen Below Glen Canyon Dam on the Morphology of the Colorado River,
W77-12265 1024 2J

Stream-Channel Response to Floods, With Examples from Central Texas,
W77-12553 1024 2J

STREAM FISHERIES
Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

STREAM FLOW
Connecticut River Basin Program. Part III, Phase I. Water Quality Reconnaissance for the Connecticut River Supplemental Study.
W77-04871 1010 5G

Storm Management Program is Model for Others,
W77-10612 1021 4A

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

STREAM GAGES
Gaging Sediment-Laden Flows With V-Notch Weirs,
W77-00845 1002 2J

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

STREAM IMPROVEMENT
Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

STREAM MODELING
Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

STREAM MONITORING
Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

STREAM MORPHOLOGY
Link Length Organization and Network Scale Dependencies in the Network Diameter Model,
W77-05161 1011 4A

Effects of Change in Stream Regimen Below Glen Canyon Dam on the Morphology of the Colorado River,
W77-12265 1024 2J

STREAM NETWORK VOLUME
Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

STREAM NETWORKS
Variation of Link Magnitude with Map Scale,
W77-05338 1011 7C

STREAM ORDER
Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

STREAM PURIFICATION
Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

STREAM STABILIZATION
Morphology and Morphometry of a Channelized Stream: The Case History of Big Pine Creek Ditch, Benton, County, Indiana, Studies in Fluvial Geomorphology No. 4,
W77-11939 1023 2E

STREAM TEMPERATURE FORECASTING
Water Temperature Forecasting and Estimation Using Fourier Series and Communication Theory Techniques,
W77-04774 1010 2E

STREAM TURBIDITY
The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

STREAM WATER QUALITY
The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

STREAM WIDTH-DISCHARGE RELATIONSHIP
Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

STREAMBEDS
Model Study of the Drag Coefficient of a Streambed Particle,
W77-00816 1002 2J

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

Development of Bed Configurations in Coarse Sands,
W77-10980 1022 8B

Statistical Procedures for Bed Form Analysis,
W77-11582 1023 8B

STREAMFLOW
Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
W77-00428 1001 2E

Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

Floods of March-April 1973 in Southeastern United States,
W77-00434 1001 2E

Gaging Sediment-Laden Flows With V-Notch Weirs,
W77-00845 1002 2J

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

History of Irrigation and Characteristics of Streamflow in Nebraska Part of the North and South Platte River Basins,
W77-00859 1002 2E

A Climatonomic Study of the Lake Ontario Drainage Basin,
W77-01146 1003 2H

Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

Isotopic Hydrology in the Amazonia 2. Relative Discharges of the Negro and Solimoes Rivers Through O-18 Concentrations,
W77-02016 1004 2E

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

Selection of Streamflow and Reservoir-Release Models for River-Qualtiy Assessment,
W77-02302 1005 2A

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 3. Basins from Maryland to York River.
W77-02307 1005 7C

Sediment Problems in the Savannah River Basin,
W77-02320 1005 2J

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Discharge Computations at River Control Structures,
W77-02986 1006 4A

Convective Model of Longitudinal Dispersion,
W77-02988 1006 5B

Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
W77-03097 1007 5B

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

The Effects of Streamflow Variation on Production and Income of Irrigated Farms Operating Under the Doctrine of Prior Appropriation,
W77-03637 1008 3F

Ownership of Water.
W77-03722 1008 6E

Effects of Forest Cultural Treatments Upon Streamflow,
W77-03795 1008 4C

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

Percolation and Streamflow in Range and Forest Lands,
W77-04775 1010 2G

On the Precision of Salt Dilution Gauging,
W77-04875 1010 2E

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Streamflow Increases After Removing Woodland-Riparian Vegetation from a Southern California Watershed,
W77-05124 1011 4C

Modeling Monthly Hydrologic Persistence,
W77-05177 1011 2E

Allowance for the Variability of Discharges in Computations of the Dilution of Waste Waters in Rivers,
W77-05234 1011 5B

Low-Flow Characteristics of Streams in the Inner Coastal Plain of South Carolina,
W77-05272 1011 2E

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

Shot Noise Models for the Generation of Synthetic Streamflow Data,
W77-05955 1012 2E

Proposed Hydrologic Analyses of Streamflow for Brazil,
W77-06343 1013 2E

The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

Damage by Floating Timber.
W77-06577 1013 6E

Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

Surface Water Network Design by Regression Analysis Simulation,
W77-06963 1014 2E

A Reconsideration and a Generalization of Lawrance and Fiering Two-Station Models,
W77-07157 1015 2E

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

Streamflow Regionalization in British Columbia, No. 2, Regression of Mean Annual Flows on Physiographic Parameters,
W77-07434 1015 2E

Reconnaissance of Sediment Transport and Channel Morphology in the Lower Rio Bermejo Basin, Argentina--With a Section on

Reconnaissance of the Lower Rio Pilcomayo Basin, Argentina and Paraguay,
W77-07490 1015 2J

Surface Water Supply of the United States, 1966-70--Part 15. Alaska.
W77-07493 1015 7C

The Economic Basis of Resource Information Systems: The Case of Streamflow Data Network Design,
W77-07534 1015 7A

Generation of Multivariate Synthetic Flows,
W77-07610 1016 2A

Some Applications of Stochastic Flow Generation,
W77-07647 1016 2A

Methods for the Mathematical Description of the Structure of River Runoff Variations,
W77-07652 1016 2E

Spectral Analysis of the Structure of Hydrological Series,
W77-07653 1016 2E

Elements of Runoff Periodicity in Tasks of Modelling,
W77-07655 1016 2E

Cyclical Structure of the Hydrological Series and the Nature of Individual Components,
W77-07656 1016 2E

Problems Encountered in Synthetic River Flow Generation Procedures,
W77-07657 1016 2A

On Deterministic Components in Natural Streamflow,
W77-07658 1016 2E

Structural Relation Between Parametric and Stochastic Hydrology Models,
W77-07664 1016 2A

A Simple Stochastic Modelling of Hurst's Law,
W77-07666 1016 2E

Finding Regularities in Long-Term Streamflow Fluctuations by Analysis of Hydrological Ensembles,
W77-07676 1016 2E

Time and Frequency-Domain Identification of a Casual Bivariate Stochastic Process,
W77-07680 1016 2E

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

Low Flow Analyses of Streams: Details of Computational Procedures and Annotated Bibliography,
W77-08219 1017 2E

Floods in the Big Creek Basin, Linn County, Iowa,
W77-08731 1018 2E

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Hydrologic Changes After Logging in Two Small Oregon Coastal Watersheds,
W77-08746 1018 4C

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

Augmenting Summer Streamflow by Use of a Silicone Antitranspirant,
W77-09126 1019 3B

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

The Operational Water Quantity Model,
W77-09204 1019 4A

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

Discharge Data at Water-Quality Monitoring Stations in Arkansas, 1976 Water Year,
W77-09997 1020 7C

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

Contribution of Lateral Soil Water Movement Above a Fragipan to Streamflow,
W77-10312 1021 2G

Application of Some Statistical Methods for the Estimation of Minimum Flow,
W77-10420 1021 2E

Water Resources Data Bank in New Jersey and Computations of Extreme Flows,
W77-10830 1022 7C

Correlation Constraints for Generating Processes,
W77-11385 1022 2A

Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

Stochastic Point-Rainfall Simulation,
W77-11387 1022 2A

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

A Generalized Streamflow Simulation System,
W77-12113 1023 2A

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

STREAMFLOW COMPUTATIONS

Discharge Computations at River Control Structures,
W77-02986 1006 4A

Computation of Records of Streamflow at Control Structures,
W77-10003 1020 2E

STREAMFLOW DATA

Hydrologic Engineering Methods for Water Resources Development: Volume 8, Reservoir Yield,
W77-10991 1022 8B

STREAMFLOW DISTRIBUTION

The Influence of Bogs on the Distribution of Streamflow from Small Bog-Upland Catchments,
W77-06440 1013 4D

STREAMFLOW FORECASTING

Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

The Mathematical Modelling of Rivers,
W77-00941 1002 2E

Comparison of Linear Systems and Finite Difference Flow-Routing Techniques,
W77-02319 1005 2E

Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

The Application of HYMO to Study Areas of Southwestern Wyoming for Surface Runoff and Soil Loss Estimates,
W77-03729 1008 4A

Seasonal Streamflow Estimation in the Himalayan Region Employing Meteorological Satellite Snow Cover Observations,
W77-05956 1012 2C

The Representation of a Short Period of Experimental Catchment Data by a Linear Stochastic Difference Equation,
W77-07646 1016 2

Spatial and Time Analysis and Estimation of River Flow,
W77-07654 1016 2E

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

Regional Simulation of Streamflow Data,
W77-08298 1017 2A

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

STREAMFLOW MODELS

Modeling Monthly Hydrologic Persistence,
W77-05177 1011 2E

STREAMFLOW TRANSMISSION LOSSES

Streamflow Transmission Losses in Western Kansas,
W77-10966 1022 4A

STREAMS
Morphology of Cobble Streams in Small Watersheds,
W77-00089 1001 2E

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

Maximum Known Stages and Discharges of New York Streams Through 1973,
W77-00485 1001 7C

Obstructing Bridges or Streams.
W77-00989 1002 6E

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

Maine Rivers Bibliography- A User's Manual,
W77-02224 1005 10C

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Frequency Analysis of Cyclic Phenomena in Flowing Streams,
W77-04158 1009 5C

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

An Examination of the Variance Minimization Tendencies of A Supraglacial Stream,
W77-05141 1011 2E

Evaluating Water Quality Impacts of Small Streams on Major Urban Rivers,
W77-05249 1011 5C

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

Water Temperatures of Kentucky,
W77-05743 1012 7C

Predicting Dispersion Coefficient of Streams,
W77-05803 1012 5B

Flood Effects on Stream Ecosystems,
W77-05949 1012 4D

Navigable Waters (Aquisition, Title and Conveyance).
W77-06083 1012 6E

Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

Pesticides Data-Collection Activities of the U.S. Geological Survey in Texas,
W77-06344 1013 5B

Damage by Floating Timber.
W77-06577 1013 6E

Influence of Gradient on the Distribution of Fishes in Conowingo Creek, Maryland and Pennsylvania,
W77-06635 1014 2I

Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

Convective-Dispersion in Perennial Streams,
W77-07160 1015 5B

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Aspects of Bankfull Geometry in a Distributary System of Eastern Australia,
W77-07782 1016 2E

Recreational Use of Small Streams in Wisconsin,
W77-08008 1016 5G

Wells, Pumping Plants, Conduits and Streams,
W77-08154 1017 6E

Boom Companies; Construction, Powers Of,
W77-08157 1017 6E

The Influence of Precipitation on Biochemical Oxygen Demand on Nine Streams in New Jersey,
W77-08203 1017 5B

Indiana Stream-Temperature Characteristics,
W77-08755 1018 7C

Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
W77-08955 1018 5C

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Stream Modeling and Waste Load Allocation,
W77-09169 1019 5B

Alteration of Channel of Streams (Permit System).
W77-09575 1019 6E

The Origin of Horizontal Laminae in Ephemeral Stream Channel-Fill,
W77-09950 1020 2J

The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

Comparative Limnology of Differentially Regulated Sections of a Colorado Mountain River,
W77-10155 1021 6G

Short-Term Effects of Highway Construction on the Limnology of a Small Stream in Southern Ontario,
W77-10260 1021 5C

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

The Fish Community in a Section of Rokytna Creek After Twenty Years,
W77-10363 1021 5C

A New Code for Reducing Stream Siltation,
W77-10369 1021 4D

State V Wilson (Seasonally Flowing Stream Not Constantly Flowing Stream).
W77-10486 1021 6E

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

Modeling of Stream Geometry and Its Applications,
W77-10791 1021 2E

A Waste Control Program for a River with Highly Variable Concentration of Conservative Substance,
W77-10813 1022 5G

Control of Water Quality in Polluted Streams,
W77-10834 1022 5G

Redwood National Park Studies, Data Release Number 2, Redwood Creek, Humboldt County, and Mill Creek, Del Norte County, California, April 11, 1974-September 30, 1975,
W77-10857 1022 4C

Pulsing Flow in Steep Alluvial Streams,
W77-11206 1022 8B

On Determining Distances Through Stream Networks,
W77-11225 1022 4A

Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

Reaeration Coefficients of Streams--State-of-the-Art,
W77-11382 1022 5B

Sediment Concentration and Duration in Stream Channels,
W77-11825 1023 2J

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

Temperature of Missouri Streams,
W77-12385 1024 7C

Stream-Channel Response to Floods, With Examples from Central Texas,
W77-12553 1024 2J

STREAMWISE VARIATION
Effect of Lateral Inflow on Steady Open Channel Flows,
W77-08290 1017 2E

STREETER-PHELPS MODEL
Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W77-01930 1004 5B

STRENGTH
Flexural Strength of Lake Ice in Relation to Its Growth Structure and Thermal History,
W77-00354 1001 2C

Laboratory Study of the Flexural Strength and Elastic Modulus of Freshwater and Saline Ice,
W77-06661 1014 2C

STRENGTH OF MATERIALS
The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads,
W77-02460 1005 2C

Strength of Ice Under Multiaxial Loading,
W77-03301 1007 2C

Composite Conduit Construction for Lower Cost Installations and Improved Performance,
W77-12501 1024 8F

STREPTOCOCCI
Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
W77-08179 1017 5A

STREPTOCOCCUS
Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Fecal Coliform and Fecal Streptococcus Density Relationships in Waste Discharges and Receiving Waters,
W77-04711 1010 5B

The Effect of the Willimantic Sewage Treatment Plant on the Microflora and Metabolism of the Shetucket River,
W77-09094 1018 5C

Recovery and Susceptibility Pattern of Faecal Streptococci Bacteriophages,
W77-10641 1021 5A

STRESS
Kaiser Effect in Snow,
W77-02154 1005 2C

Physiological Responses of Rainbow Trout (Salmo Gairdneri) to Electroshock,
W77-03026 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Antisymmetric Stress for Sea Ice,
W77-04240 1009 2C

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

Resistance of Plaice Eggs to Mechanical Stress and Light,
W77-04553 1009 5C

Stress in an Elastic Bedrock Hump Due to Glacier Flow,
W77-08236 1017 2C

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Benefits of Brackish Water Stresses to Crop Production,
W77-11065 1022 3C

Physiological Responses of Estuarine Organisms to Chlorine,
W77-11283 1022 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

STRESS ANALYSIS
Techniques for Measuring Stress in Sea Ice,
W77-10507 1021 2C

Composite Conduit Construction for Lower Cost Installations and Improved Performance,
W77-12501 1024 8F

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

STRESSED ENVIRONMENTS
The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

STRICT LIABILITY
Liability for Damages to Adjacent Land or Building Caused by Dredging,
W77-08387 1017 6E

STRIP AQUIFERS
Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

STRIP CUTTING
Estimated Groundwater Yield Following Strip Cutting in Pine Plantations,
W77-01426 1003 4C

The Effect of Strip-Cutting on Stream Temperatures in the Hubbard Brook Experimental Forest, New Hampshire,
W77-09807 1020 4C

STRIP MINE LAKES
Freshwater Ecological Effects,
W77-02657 1006 5G

Limnological Characteristics of Strip Mine Ponds in Northwestern Colorado, U.S.A.,
W77-03538 1007 5C

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

STRIP MINE WASTES
Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

Freshwater Ecological Effects,
W77-02657 1006 5G

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Potential Impact of the Development of Lignite Reserves on Water Resources of East Texas,
W77-04297 1009 5B

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

Reclamation and Use of Disturbed Land in the Southwest.
W77-08452 1017 5G

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

Coal and Coal Mine Drainage, (Literature Review),
W77-10355 1021 5G

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

STRIP MINES
Assessment of Practicality of Remote Sensing Techniques for A Study of the Effects of Strip Mining in Alabama,
W77-00170 1001 5C

Project Proposal for Surface-Mined Land Enhancement (SMILE),
W77-01699 1004 5G

Strip-Mining Techniques to Minimize Environmental Damage in the Upper Missouri River Basin States,
W77-02445 1005 5G

Freshwater Ecological Effects,
W77-02657 1006 5G

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

STRIP MINES

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

Limnologic-Geologic Excursion in the Territory of the Lower Erft River, (In German),
W77-07799 1016 5B

Strip Mining (Citations from the NTIS Data Base).
W77-10939 1022 5G

Modeling the Impact of Strip Mining and Reclamation Processes on Quality and Quantity of Water in Mined Areas: A Review,
W77-11833 1023 5C

Development of a Procedure for Forecasting Long Range Environmental Impacts, Report to the Resource and Land Investigations Program (RALI),
W77-12589 1024 6G

STRIP MINING

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

STRIPED BASS

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Uptake, Distribution, and Depuration of 14C-Benzene in Northern Anchovy, Engraulis mordax, and Striped Bass, Morone Saxatilis,
W77-07202 1015 5C

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

STRIPED MULLET

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Solid-State Environmental Controller for Aquaculture Systems (SECAS),
W77-12018 1023 8I

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

STRIPPED BASS

Hematology of Juvenile Striped Bass, Morone Saxatilis (Walbaum), Acclimated to Different Environmental Conditions,
W77-07400 1015 5C

STROBILIDIUM-VELOX

Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

STRONIUM RADIOISOTOPES

Mathematical Models of Strontium-90 Behavior in 'Water-Fresh Water Fish Spawn' System for Particular Cases of Radioactive Contamination of Reservoirs, (In Russian),
W77-07539 1015 5C

STRONTIUM

Specific Adsorption of Trace Amounts of Calcium and Strontium by Hydrous Oxides of Iron and Aluminum,
W77-01513 1003 2G

Precipitation of Calcium and Strontium Sulfates Around Plant Roots and Its Evaluation,
W77-01514 1003 2I

Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

Calcium and Strontium Absorption by Corn Roots in the Presence of Chelates,
W77-09657 1020 3F

The Behaviour of SR90 and CS137 in the Waters of the Baltic Sea,
W77-10394 1021 5B

STRONTIUM-90

Mathematical Models of Strontium-90 Behavior in 'Water-Fresh Water Fish Spawn' System for Particular Cases of Radioactive Contamination of Reservoirs, (In Russian),
W77-07539 1015 5C

STRONTIUM RADIOISOTOPES

Vertical Distribution of Strontium-90 and Cesium-137 in Bottom Deposits of Rivers and Lakes, (In Russian),
W77-01560 1004 5B

Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

Migration of 90Sr with Runoff Waters from Soils, (In Russian),
W77-07971 1016 5B

STRUCTURAL ALTERNATIVES

Guidelines for Flood Damage Reduction.
W77-11862 1023 6F

STRUCTURAL ANALYSIS

Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

STRUCTURAL DESIGN

Construction of Goscote Sewage Pumping Station,
W77-02326 1005 8C

STRUCTURAL ENGINEERING

Composite Conduit Construction for Lower Cost Installations and Improved Performance,
W77-12501 1024 8F

Failure of a Cast-In-Place Unreinforced Concrete Conduit,
W77-12502 1024 8F

Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

STRUCTURAL MEASURES

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

STRUCTURAL MODIFICATION (DAMS)

Structural Modifications,
W77-05087 1010 8A

STRUCTURAL STABILITY

A Retrospective on the Structural Stability of RCC Spun Sewer Pipes,
W77-00073 1001 5D

STRUCTURAL STEEL

Proposed Effluent Guidelines and Standards for Iron and Steel Manufaturing,
W77-08370 1017 5G

STRUCTURE

Evaluation of Multi-Purpose Offshore Industrial-Port Islands. Vol II: Major Research Problems and Promising Research Approaches,
W77-00199 1001 8C

STRUCTURES

Redevelopments on the Oceanfront,
W77-01100 1003 6E

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

STURGEON

Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

STYLOSCOLEX OPISTHOTHECUS

A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

SUB-BASINS

U.B.C. Watershed Model,
W77-10969 1022 2A

SUB-HUMID CLIMATES

Response of Wheat Under Sub-Humid Irrigated Conditions to Atmospheric Misting During Grain Filling,
W77-01284 1003 3F

SUB-LETHAL EFFECTS

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

SUB-THERMOCLINE

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

SUBALPINE WATERSHEDS

A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

SUBARCTIC

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

Energy Balance Computations of Snowmelt in a Subarctic Area,
W77-00373 1001 2C

The Effect of the Geostrophic Flow Upon Coastal Sea Elevations in the Northern North Pacific Ocean,
W77-02477 1005 2L

Evidence of a Westward-Flowing 'Subarctic Countercurrent' in the North Pacific Ocean,
W77-03760 1008 2L

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

The Lentic and Lotic Freshwater Types of Marion Island (Sub-Antarctic): A Limnological Study,
W77-07514 1015 5C

SUBARCTIC REGIONS

A Northern Snowmelt-Flood Frequency Model,
W77-05186 1011 2E

SUBARCTIC SNOWPACKS

The Generation of Runoff from Subarctic Snowpacks,
W77-00372 1001 2C

SUBCUTANEOUS EMPHYSEMA

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

SUBDUED TOPOGRAPHY

An Empirical Method for Simulation of Water Tables by Digital Computers,
W77-12546 1024 2F

SUBJECTIVE EVALUATION

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

SUBLETHAL BIOLOGICAL EFFECTS

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

SUBLETHAL CONCENTRATION

Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

SUBLETHAL EFFECTS

Latent Effects of Iranian Crude Oil and a Chemical Oil Dispersant on Red Sea Molluscs,
W77-01262 1003 5C

Progress in Sublethal Effect Studies with Kraft Pulp Mill Effluent and Salmonids,
W77-02573 1005 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-02727 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Effects of Oil on the Amphipod Gammarus Oceanicus,
W77-03777 1008 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

The Effects of Various Aroclor Fractions on the Population Growth of Chlorella Pyrenoidosa,
W77-05873 1012 5C

Effect of Hexachlorobenzene on Some Growth Parameters of Chlorella Pyrenoidosa,
W77-05889 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

Induction of Hepatic Microsomal Enzymes by Aroclor 1254 in Ictalurus punctatus (Channel Catfish),
W77-06759 1014 5C

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

SUBMARINE CANYONS

The Barrow Submarine Canyon: A Drain for the Chukchi Sea,
W77-02481 1005 2L

Current-Meter Recordings of Low-Speed Turbidity Currents,
W77-08847 1018 2L

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

SUBMARINE MEANDERING THALWEG

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

SUBMARINES

Dredge River Channel: Naval Submarine Base, New London, Groton, Connecticut (Final Supplement to Final Environmental Impact Statement).
W77-10454 1021 6G

SUBMERGED AQUATIC PLANTS

Biomass and Remote Sensing of Aquatic Macrophytes in the Pamlico River Estuary,
W77-04325 1009 5C

SUBMERGED BUOYANT JETS

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

SUBMERGED CHAMBERS
Use of Large Submerged Chambers to Measure Sediment-Water Interactions,
W77-09343 1019 5B

SUBMERGED LANDS
Florida Statutes, Chapter 253--The 1969 Amendments and Proposed Legislation,
W77-07258 1015 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
W77-08365 1017 6E

Florida's Sovereignty Submerged Lands: What Are They, Who Owns Them and Where is the Boundary,
W77-08951 1018 6E

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

SUBMERGED LANDS ACT
Boundaries of the Coastal Zone: A Survey of State Laws,
W77-08132 1017 6E

As an Incident of National Sovereignty, the United States Has Paramount Rights and Power in the Seabed and Subsoil of the Outer Continental Shelf,
W77-08974 1018 6E

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

Submersible and Submerged Lands (State Ownership or Jurisdiction).
W77-10497 1021 6E

SUBMERGED OFFSHORE DIFFUSER
Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

SUBMERGED OFFSHORE STRUCTURES
Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

SUBMERGED PLANTS
Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

The Invertebrates on Submerged Macrophytes in Three Masurian Lakes,
W77-07987 1016 5C

Remote Sensing of Submerged Aquatic Vegetation in the Lower Cheasapeake Bay,
W77-09468 1019 2L

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

SUBMERGENCE
The Change of Clay Material in Chernozems Under Rice Cultivation, (In Russian),
W77-00523 1001 2G

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

Subsidence: Settling Down Within the Laws of Accretion, Reliction, Erosion, and Submergence,
W77-07238 1015 6E

United States V Osage Company (Removal of Sunken Boats Obstructing Navigable Waters Owner's Responsibility).
W77-08150 1017 6E

SUBMERSIBLE ELECTRIC MOTORS
Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

SUBMERSIBLE PUMPS
Pumping Systems: The Simpler, The Better,
W77-06856 1014 8C

Submersible Pump Design: Dependent on Well Diameter and Depth.
W77-06867 1014 8C

Installation Tips on Large Submersibles,
W77-07289 1015 8C

Pumping Systems: Part II,
W77-07704 1016 8C

Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

SUBREGIONS
Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

SUBSIDENCE
Delaware's Changing Shoreline,
W77-02684 1006 2L

Subsidence: Settling Down Within the Laws of Accretion, Reliction, Erosion, and Submergence,
W77-07238 1015 6E

SUBSOIL WATER
Assessment of Available Water Storage Capacity of Soils with Restricted Subsoil Permeability,
W77-05345 1011 2G

SUBSOILS
Nitrogen Fixation by Algae in Fescuegrass Soil Crusts,
W77-02274 1005 2G

SUBSTITUTE NATURAL GAS (SNG)
Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

SUBSURFACE DRAINAGE
Maryland Highway Drainage Study: Volume VI - An Experimental Examination of the Subsurface Drainage of Roadways,
W77-02493 1005 4C

Shallow Subsurface Drainage-Field Performance,
W77-05441 1011 4A

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

Flow Analysis of Karst Systems with Well Developed Underground Circulation,
W77-10878 1022 2F

Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

A Multi-Layer Model for Gravity Drainage of Unsaturated Soil,
W77-12093 1023 2F

SUBSURFACE DRAINS
Shallow Subsurface Drainage-Field Performance,
W77-05441 1011 4A

The Hydraulic Resistance of Subsurface Drains as Influenced by Certain Filter Materials,
W77-12835 1024 4A

SUBSURFACE FLOW
Subsurface Flow Interception by a Logging Road in Mountains of Central Idaho,
W77-01948 1004 4C

Subsurface Currents in the Strait of Georgia, West of Sturgeon Bank,
W77-03845 1008 2L

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

Peat Hydrology in the Hula Basin, Israel: II. Subsurface Flow Regime,
W77-05790 1012 2G

Comparison of Iterative Methods of Solving Two-Dimensional Groundwater Flow Equations,
W77-06965 1014 2F

Solute Movement in a Field Soil,
W77-07759 1016 2G

SUBSURFACE INJECTION
Subsurface Injection-How Much Does It Cost,
W77-07011 1014 5E

SUBSURFACE INVESTIGATIONS
Well Logging Manual.
W77-04115 1009 8G

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

On Large-Scale Simulation of Groundwater Flow Systems,
W77-06713 1014 4B

Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

Hot Dry Rock: Widespread But Invisible,
W77-12681 1024 8E

SUBSURFACE IRRIGATION
Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Novel Irrigation System and Method for its Application,
W77-06450 1013 3F

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

Underground Irrigation Porous Pipe,
W77-09810 1020 3F

Subsurface and Furrow Irrigation Evaluation for Bean Production,
W77-11962 1023 3F

Subterranean Irrigation, A Special Report on the PAT, Inc. System,
W77-12523 1024 3F

Water-Table Management,
W77-12580 1024 4A

SUBSURFACE MAPPING

Geophysical Study of the Waterbearing Strata in Bitterroot Valley, Montana,
W77-02085 1005 2F

Geohydrologic Maps of the Potomac-Raritan-Magothy Aquifer System in the New Jersey Coastal Plain,
W77-04234 1009 7C

SUBSURFACE RUNOFF

Nitrogen in Subsurface Discharge from Agricultural Watersheds,
W77-00166 1001 5B

Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage,
W77-10734 1021 5A

SUBSURFACE WASTE-DISPOSAL MODEL

A Model for Calculating Effects of Liquid Waste Disposal in Deep Saline Aquifers, Part I--Development.
W77-02010 1004 5B

SUBSURFACE WATER

Remote Sealing of Mine Passages Containing Flowing Water,
W77-08896 1018 5G

SUBSURFACE WATERS

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Water Under the Sand,
W77-02852 1006 4B

Movement of Subterranean Waters in the Ecosystem of the Amazonian Campina, (In Portugese),
W77-04773 1010 2F

Coagulation of Water with High Concentration of Color Matter (Oczyszczanie wody o wysokiej barwie),
W77-06188 1013 5G

Quality of Underground Irrigation water in the Semi Arid Tract of Agra District,
W77-06249 1013 3C

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

SUBTROPIC

Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

SUBURBAN AREAS

An 'Environmental' Approach to Stormwater Management in the Adelaide Hills (Australia),
W77-00953 1002 4A

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

SUBURBAN DRAINAGE

Network Characteristics in Suburbanizing Streams,
W77-08830 1018 4C

SUCCESSION

The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds,
W77-02438 1005 5C

Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Seasonal Variation in the Plankton and Periphyton Diatoms of Lake George, N.Y.,
W77-05984 1012 5C

Succession Rates in Lake Phytoplankton Communities,
W77-07442 1015 5C

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

Interdependence Between Several Different Species of Algae Investigated in Cultures,
W77-09470 1019 5C

Growth and Photosynthesis During the Formation of a Benthic Algal Community,
W77-09627 1020 5C

The Effect of Fire on the California Chaparral Vegetation,
W77-10324 1021 5C

SUCCESSIVE USE

Rights of Importers and Developers of Water: Denver V Fulton Irrigating Ditch Company,
W77-04348 1009 6E

SUCKERS

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Effects of Reduced Oxygen on Embryos and Larvae of the White Sucker, Coho Salmon, Brook Trout, and Walleye,
W77-04547 1009 5C

Influence of Lipid Pool Size on Bioaccumulation of the Insecticide Chlorodane by Northern Redhorse Suckers (Moxostoma Macrolepidotum),
W77-05887 1012 5C

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

SUCROSE REMOVAL

Enzyme Process Design for Water Treatment,
W77-05336 1011 5D

SUCTION HEAD

Suction Head at Wet Front in Unsaturated-Flow Problems--A New Definition,
W77-07144 1015 2G

SUCTION TENSION (TREES)

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

SUCTION UNITS

Model Calculations for the Extraction of Soil Water by Ceramic Cups and Plates,
W77-11230 1022 2G

SUDAN

Effect of Soil Moisture on Nodulation of Cowpea and Hyacinth Bean,
W77-01902 1004 2I

Experts Cling to Water Myths,
W77-02120 1005 3F

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

SUDAN

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

Irrigation of a Saline-Sodic Site in the Sudan Gezira. I-Water Movement,
W77-12285 1024 3C

Irrigation of a Saline-Sodic Site in the Sudan Gezira. II-Salt Movement and Sodicity Changes,
W77-12286 1024 3C

SUDAN (GEZIRA)

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

SUDBURY

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

SUGAR

Component Composition and Transformation and Watersoluble Organic Substance in Bottom Soils of the Kremenchug Reservoir, (In Russian),
W77-05492 1011 5B

SUGAR BEETS

Transport of Carbon14-Assimilates in the Sugar Beet Under Different Conditions of Nutrition and Moisture, (In Russian),
W77-00421 1001 5B

Estimating Relative Leaf Water Content with a Simple Beta Gauge Calibration,
W77-03635 1008 7B

Effect of Sodium on the Growth of and Ion Uptake by Barley, Sugar Beet and Broad Beans,
W77-04787 1010 3C

New Ion Exchange Systems for the Beet Sugar Industry. Part III. Processing of Ion Exchange Waste,
W77-05520 1011 5D

Yields and Sugar Content of Sugarbeets as Affected by Deficity High-Frequency Irrigation,
W77-11966 1023 3F

Sugarbeet Yield and Quality as Affected by Nitrogen Level,
W77-12125 1023 3F

Irrigation Schedules for Sugarbeets on Medium and Coarse Textured Soils in the Northern Great Plains,
W77-12126 1023 3F

SUGAR CANE

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

SUGAR MILL WASTE WATER

Sucrose Removal from Cane Sugar Mill Waste Streams by Ion Exchange,
W77-04142 1009 5D

SUGAR MILL WASTES

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

SUGAR PROCESSING WASTES

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

SUGAR REFINERY WASTES

The Effect of Bottom Sediments on Formation of Surface Water Composition, (In Russian),
W77-02259 1005 5B

SUGARBEETS

Budget for Your Nitrogen Ideal Sugarbeets,
W77-12526 1024 3F

SUGARCANE

Particle Characteristics and Dispersal Patterns of Sugar Cane Wastes in Selected Rivers and Estuaries of Puerto Rico,
W77-06632 1014 5B

Sulfur-Coated Fertilizers for Sugarcane: I. Plant Response to Sulfur-Coated Urea,
W77-09640 1020 3F

Nitrogen Nutrition and Yield of Sugarcane as Affected by N-Serve,
W77-11953 1023 3F

Sulfur and Nitrogen Requirements of Sugarcane,
W77-11958 1023 3F

SUGARLOAF CREEK RESERVOIR (VIC)

Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

SUIMON RIVER (JAPAN)

Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

SULFANOL

The Depth of Penetration with Water of the Pesticide BHC in the Presence of Sulfanol into the Ground, (In Russian),
W77-11523 1023 5B

SULFATE REDUCTION

Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

SULFATES

Precipitation of Calcium and Strontium Sulfates Around Plant Roots and Its Evaluation,
W77-01514 1003 2I

Investigation of Laser Raman Spectroscopy for Analysis of Water Quality,
W77-01817 1004 5A

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

Some Biochemical Characteristics of the Water in the Cariaco Trench, (In Spanish),
W77-05021 1010 2L

Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

The Effect of Sulphates and Phosphates (Industrial Wastes) on the Mucopolysaccharides Content of the Gills of the Eel Anguilla Anguilla (L.),
W77-05857 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

Black and White Episodes,
W77-06364 1013 5A

Biogenic Elements and Sulfate Reduction in Water Oil Carbonate Layer, (In Russian),
W77-07040 1014 5B

Degradation of Sodium Dodecylsulfate by Bacteria in Waste Waters, (In Russian),
W77-07801 1016 5B

Effect of Some Chemical Elements on the Accumulation of Cesium-137 in Freshwater Fish, (In Russian),
W77-08322 1017 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

Adsorption of Selenite and Phosphate on an Allophane Clay,
W77-09439 1019 2G

Effects of Three Environmental Variables on Sulfate Uptake by Aerobic Bacteria,
W77-09524 1019 5C

Gaseous Loss of Ammonia from Sulfur-Coated Urea, Ammonium Sulfate, and Urea Applied to Calcareous Soil (PH 7.3),
W77-10287 1021 2G

Metal Finishing Plant Waste Water Purifcn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Phosphate Removal Studies at Barrie Water Pollution Control Centre,
W77-10602 1021 5D

Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Sulfate Saline Water and Its Influence on Selected Aquatic Vertebrates,
W77-12259 1024 3C

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

SULFHYDRYL-GROUPS

Influence of Polyphenols and Quinones on Aquatic Plants and Their Blocking of SH-Groups,
W77-12045 1023 5C

SULFIDES
Process for Gasifying Carbonaceous Solids and Removing Toxic Constituents from Aqueous Effluents,
W77-00751 1002 5D

Meteorological Factors and Air Pollution in Sofia, (In Russian),
W77-01601 1004 5A

Studies on the Oxidation of Organic Sulphides in Kraft Black Liquor,
W77-02001 1004 5G

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

Sulphide Measurement Using Ammonium Molybdate,
W77-03657 1008 5A

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Mineralizing Microbial Activity in Lake Faro,
W77-07418 1015 5C

Hydrothermal Fluids of Seawater Salinity in Ophiolitic Sulphide Ore Deposits in Cyprus,
W77-08854 1018 2L

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

SULFITE LIQUOR
Investigations on the Crosslinking of Spent Sulfite Liquor (Untersuchungen zur Vernetzung technischer Sulfitablauge),
W77-04807 1010 5D

SULFITE LIQUORS
Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Some Internal Measures for Reducing Effluent Load, for Example, in a Calcium Bisulfite Mill (Einige innerbetriebliche Massnahmen zur Verminderung der Vorfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02576 1006 5D

Some Internal Measures for the Reduction of the Effluent Load Shown by the Example of a Calcium-Bisulphite Pulpmill (Einigeinnerbetriebliche Massnahmen zur Verminderung der Verfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02609 1006 5D

Electrochemical Purification of Effluents from the Manufacture of Sulfite and Kraft Pulps (Elektrokhimicheskaya ochistka stochnykh vod ot proizvodstva sul'fitnoi i sul'fatnoi tsellyulozy),
W77-03815 1008 5D

Utilization of the Spent Sulfite Liquor Components in the Pekilo Protein Process and the Influence of the Process upon the Environmental Problems of a Sulfite Mill,
W77-03816 1008 5D

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

Technology and Associated Cost for Sulphite Pulping Spent Liquor Recovery.
W77-12772 1024 5D

SULFITE PULP MILLS
Some Internal Measures for Reducing Effluent Load, for Example, in a Calcium Bisulfite Mill (Einige innerbetriebliche Massnahmen zur Verminderung der Vorfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02576 1006 5D

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

New In-Plant Technology to Reduce Pollution from a Sodium Base Sulphite Mill,
W77-05699 1012 5D

SULFONATES
Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Adsorption of Dodecylbenzene Sulfonate on NA(+)-Montmorillonite: Effect of Salt Impurities,
W77-09651 1020 2G

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

SULFUR
Sorption of Sulfur Dioxide by Calcareous Soils,
W77-00295 1001 5B

The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

Sulfur Fractions and Carbon-Nitrogen-Phosphorus-Sulfur Relationships in Some Brazilian and Iowa Soils,
W77-02102 1005 2G

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

Use of Undisturbed Cores of Surface Soil for Investigating Leaching Losses of Sulphur and Phosphorus,
W77-09309 1019 2G

Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

Effect of Soil Moisture Tension and Amendments on Yields and on Herbage N, P, and S Concentrations of Alfalfa,
W77-11942 1023 3F

Sulfur and Nitrogen Requirements of Sugarcane,
W77-11958 1023 3F

SULFUR-COATED UREA
An Evaluation of Sulfur-Coated Urea as a Preplant Total Season Nitrogen Supply for Trellised Tomatoes,
W77-10283 1021 3F

SULFUR-COATED UREAS
Gaseous Loss of Ammonia from Sulfur-Coated Urea, Ammonium Sulfate, and Urea Applied to Calcareous Soil (PH 7.3),
W77-10287 1021 2G

SULFUR-COATED UREAS (SOILS)
Sulfur-Coated Fertilizers for Sugarcane: II. Release Characteristics of Sulfur-Coated Urea and KCl,
W77-09641 1020 3F

Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

SULFUR COMPOUNDS
Sorption of Sulfur Dioxide by Calcareous Soils,
W77-00295 1001 5B

'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Solidifying Sludge Containing Heavy Metals -- by Treating with Sulphur Compounds, Colloidal Sulphur and Bituminous Emulsion.
W77-03611 1008 5D

The Analysis of Sulfate Ion in Seawater by Difference Chromatography,
W77-04767 1010 2K

Gas Chromatographic Determination of Trace Amounts of Sulfur Compounds in Industrial Effluents,
W77-05681 1012 5A

Purification of Waste Sulphuric Acid by Dialysis on Weakly-Basic Anion-Exchange Membranes (Dialityczne oczyszczanie odpawdow

stezonego kwasu siarkowego przy pomocy slabozasadowych membran anionowymiennych),
W77-06186 1013 5D

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Forms of Sulfur in Sewage Sludge,
W77-07044 1014 5A

Purifying Waste Liquor Containing Sulphide, Sulphite and Thiosulphate-Alkaline Oxidation Followed by Acid Oxidation, Using Oxygen.
W77-07226 1015 5D

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Sewers Under Attack: The Hydrogen Sulphide Problem,
W77-10548 1021 5D

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Potentionmetric Determination of Microamounts of Sulfur Compounds in Kraft Mill Effluents (Potentsiometricheskoe opredelenie mikrokolichestv sernistykh soedinenii v stochnykh vodakh sul'fattsellyuloznogo proizvodstva),
W77-12354 1024 5A

SULFUR DIOXIDE

Sorption of Sulfur Dioxide by Calcareous Soils,
W77-00295 1001 5B

Control of Ambient SO2 Concentrations by Noncontinuous Emission Limitation Large Coal-Fired Power Plants,
W77-02059 1004 6G

Effect of Microorganisms on the Sorption and Fate of Sulfur Dioxide and Nitrogen Dioxide in Soil,
W77-09285 1019 5B

SULFURIC ACID

Sulfuric Acid for the Treatment of Ammoniated Irrigation Water: I. Reducing Ammonia Volatilization,
W77-01517 1003 5G

Effect of Sulfuric Acid on Sodium-Hazard of Irrigation Water,
W77-05942 1012 2G

Effect of Several Cultural Practices on the Establishment of Alfalfa (Medicago Sativa L.),
W77-09144 1019 3F

SULPHONATES

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

SULPHUR

Soil Organic Matter Fractions as Sources of Plant Available Sulphur,
W77-00310 1001 2G

Relation Between Nipigon Bay Benthic Macroinvertebrates and Selected Aspects of Their Habitat,
W77-11329 1022 5C

SUMMER

Winter and Summer Insolation Patterns for Southern Africa,
W77-10195 1021 2B

SUMMER FLOUNDER

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

SUMMER LAKE DRAINAGE BASIN (OR)

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Goose and Summer Lakes Drainage Basin, Appendix I-13,
W77-07618 1016 2G

SUMMIT CREEK (UTAH)

Prediction Models of Reaeration Rate for Mountain Creeks,
W77-08501 1017 5G

SUMPS

Sewage Disposal System,
W77-04675 1010 5E

SUN PRAIRIE (WISC)

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

SUNDANGRASS

Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
W77-03633 1008 3C

SUNFISH

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

SUNFISHES

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Distribution and Effects of Heavy Metals in a Contaminated Lake,
W77-05001 1010 5C

Thermal Tolerance and Respiratory Movement of Bluegill from two Populations Tested at Different Levels of Acclimation Temperature and Water Hardness,
W77-05562 1011 5C

Some Relationships of Upper Thermal Tolerances to Preference and Avoidance Responses of the Bluegill,
W77-05563 1011 5C

The Effect of Cold Shock on the Vulnerability of Young Bluegill to Predation,
W77-05566 1011 5C

Behavioral Thermoregulation by Bluegill Exposed to Various Rates of Temperature Change,
W77-05569 1011 5C

Daily Ration, Temperature Selection, and Activity of Bluegill,
W77-05570 1011 5C

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

Growth of the White Crappie on a Reservoir Receiving a Thermal Discharge: Thomas Hill, Missouri,
W77-05732 1012 5C

Simazine Residue Dynamics in Small Ponds,
W77-05872 1012 5B

Lead and Freshwater Fishes: Part 1-Lead Accumulation and Water pH,
W77-06435 1013 5C

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Effects of Dipotassium Endothall on Rooted Aquatics and Adult and First Generation Bluegills,
W77-08785 1018 5C

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Control of External Bacterial Infections of Bluegills with Potassium Permanganate,
W77-12024 1023 5G

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

SUNFLOWER

Time of Planting Effects on Development, Yield, and Oil Quality of Irrigated Sunflower,
W77-03135 1007 3F

SUNFLOWER CROPS

Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

SUNFLOWERS

Effect of Date of Final Irrigation on Yield and Yield Components of Sunflowers in a Semiarid Environment,
W77-12829 1024 3F

SUPER TANKERS

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

SUPERCRITICAL FLOW

Supercritical Flow Over Sills,
W77-03747 1008 8B

Convex Chutes in Converging Supercritical Flow,
W77-10020 1020 8B

On the Problem of Fluid Flow Under a Sluice Gate,
W77-10134 1021 8B

SUPERHARD MATERIALS

Superhard Materials Promise Extended Wear Capability,
W77-04283 1009 8G

SUPERPOSITION

Hydrodynamic Dispersion in Porous Materials,
W77-10131 1021 2G

SUPERSATURATED NITROGEN GAS

Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

SUPERSATURATED SPRING WATER

The Gas Disease in Fishes,
W77-05481 1011 5C

SUPERSATURATED WATER

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

SUPERSATURATION

Hydraulic Model Studies of Navajo Dam Auxiliary Outlet Works and Hollow-Jet Valve Bypass--Modifications to Reduce Dissolved Gas Supersaturation,
W77-00739 1002 8C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Two Devices for Removing Supersaturating Gases in Aquarium Systems,
W77-02706 1006 5G

Supersaturation Phenomena and the Formation of Fluorapatite in Aqueous Suspensions of Phosphate Rock,
W77-03074 1006 2G

Changes in Hemostatic Parameters in Fish Following Rapid Decompression,
W77-04400 1009 5C

Effects of Air-Supersaturated Water on Adult Sockeye Salmon (Oncorhynchus Nerka),
W77-04401 1009 5C

Survival of Coho Salmon Fingerlings Passing Through Operating Turbines with and without Perforated Bulkheads and of Steelhead Trout Fingerlings Passing through Spillways with and without a Flow Deflector,
W77-04402 1009 5C

Gas-Bubble Disease Due to Oxygen Supersaturation in Raceway-Reared California Brown Shrimp,
W77-04403 1009 5C

Dissolved Gas Data Report, 1974, Columbia and Lower Snake Rivers,
W77-04408 1009 5A

Gas Bubble Disease in Fry of Channel Catfish (Ictalurus Punctatus),
W77-04410 1009 5C

Lower Columbia and Lower Snake Rivers, Nitrogen (Gas) Supersaturation and Related Data, Analysis and Interpretation,
W77-04411 1009 5C

The Effects of Gas Supersaturation on Columbia River Fish Runs - Appendix G,
W77-04412 1009 5C

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W77-04413 1009 5C

Effects of Long Term Exposure to Supersaturation of Dissolved Atmospheric Gases on Juvenile Chinook Salmon and Steelhead Trout in Deep and Shallow Test Tanks,
W77-04414 1009 5C

Supersaturation and Fishery Observations in Selected Alpine Oregon Stream,
W77-04418 1009 5C

Some Effects of Excess Dissolved Gas on Squawfish, Ptychocheilus Oregonensis (Richardson),
W77-04419 1009 5C

Responses of Coho Salmon (Oncorhynchus Kisutch) to Supersaturation at One Atmosphere,
W77-04420 1009 5C

Effects of Gas Supersaturated Water on Freshwater Aquatic Invertebrates,
W77-04421 1009 5C

A Study of the Pathogenesis of Gas Bubble Disease in Steelhead Trout (Salmo Gairdneri),
W77-04422 1009 5C

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Gas Bubble Disease Mortality of Atlantic Menhaden, Brevoortia Tyrannus, At a Coastal Nuclear Power Plant,
W77-04424 1009 5C

Observations on the Effects of Gas Embolism in Captured Adult Menhaden,
W77-04425 1009 5C

Effect of Gas Bubble Disease on Lateral Line Function in Juvenile Steelhead Trout,
W77-04427 1009 5C

Effects of Stress on Salmonid Blood Clotting Mechanisms,
W77-04428 1009 5C

Changes in Blood Chemistry of Juvenile Steelhead, Salmo Gairdneri, Following Sublethal Exposure to Nitrogen Supersaturation,
W77-04429 1009 5C

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

Biological Studies: Laboratory Orientation,
W77-04432 1009 5C

Biological Studies: Field Orientation,
W77-04433 1009 5C

Analytical Methods,
W77-04434 1009 5C

Physics of Dissolved Gases and Engineering Solutions,
W77-04435 1009 5C

Water Quality Standards,
W77-04436 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease, 1975,
W77-04437 1009 5C

Resource and Literature Review, Dissolved Gas Supersaturation and Gas Bubble Disease,
W77-04438 1009 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Salmonid Bioassay of Supersaturated Dissolved Air in Water,
W77-04440 1009 5C

Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Nitrogen Saturation Levels on the Mid-Columbia River, 1965-1971,
W77-04442 1009 5C

Tolerance of Salmonid Eggs, Juveniles and Squawfish to Supersaturated Nitrogen,
W77-04443 1009 5C

Summer Chinook and Sockeye Salmon Mortality in the Upper Columbia River and Its Relation to Nitrogen Supersaturation,
W77-04444 1009 5C

Effect of Atmospheric Gas Supersaturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers,
W77-05078 1010 5C

Continuous Monitoring of Total Dissolved Gas Pressure, Interim Technical Progress Report,
W77-05079 1010 5A

Water Resources Service Dissolved Gas Study: Interim Data Summary,
W77-05080 1010 5C

Water Resources Service Dissolved Gas Study: Compilation of Field Measurements,
W77-05081 1010 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-05083 1010 5A

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W77-05085 1010 5C

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W77-05086 1010 5A

Structural Modifications,
W77-05087 1010 8A

Nitrogen Supersaturation Problem, Public Meeting, March 23, 1971,
W77-05088 1010 5A

Proposed Research and Development Program in Fiscal Years 1973 and 1974 at Columbia and Snake River Projects for Nitrogen Control,
W77-05089 1010 8A

Steps Being Taken by Corps of Engineers to Resolve Nitrogen Problems,
W77-05090 1010 5C

Review of Gas Supersaturation Research Done by National Marine Fisheries Service at Prescott Field Facility – 1969-1974,
W77-05091 1010 5C

Relations Between Fish Behavior, Bioassay Information and Dissolved Gas Concentrations on Survival of Juvenile Salmon and Steelhead Trout in Snake River,
W77-05092 1010 5C

A Report on the Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972,
W77-05095 1010 5C

A Report on Results of a Monitoring Programme for Dissolved Gases in Selected Waters of British Columbia, 1972-73,
W77-05096 1010 5C

Summary Report, Nitrogen Supersaturation in the Columbia and Snake Rivers,
W77-05415 1011 5C

Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids,
W77-05416 1011 5C

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

Supersaturation of Lake Water with a Precaution to Hatchery Usage,
W77-05455 1011 5C

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

Physical and Biological Aspects of Gas-Bubble Disease in Impounded Adult Chinook Salmon at Mc Nary Spawning Channel,
W77-05460 1011 5C

Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

Gas-Bubble Mortality of Fishes in Galveston Bay, Texas,
W77-05462 1011 5C

The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

The Effect of Pressure on the Survival and Distribution of Larval and Young Fish,
W77-05464 1011 5C

Origin and Treatment of a Supersaturated River Water.
W77-05465 1011 5C

The Gas Disease of Fish due to Excess of Nitrogen, (In Japanese),
W77-05466 1011 5C

Abiogenic Gas Supersaturation of River Water,
W77-05467 1011 5C

On Nitrogen-Gas Contents Dissolved in Flowing Water of Artesian Wells and Springs (Relating to High Supersaturation Inducing the So-Called 'Gas Disease' Upon Fishes,
W77-05468 1011 5C

The Influence of the Gas Content of Sea Water on Fish and Fish Larvae,
W77-05469 1011 5C

Factors Affecting the Survival of Fish Larvae,
W77-05470 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

A Sudden Mortality of Fishes Accompanying a Supersaturation of Oxygen on Lake Waubesa, Wisconsin,
W77-05473 1011 5C

The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

The Reactions of Fishes to Gradients of Dissolved Atmospheric Gases,
W77-05477 1011 5C

The Gas Bubble Disease of Fish and Its Cause,
W77-05479 1011 5C

Notes on the Dissolved Content of Water in Its Effects Upon Fishes,
W77-05480 1011 5C

The Gas Disease in Fishes,
W77-05481 1011 5C

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Gas Bubble Disease in the Blue Crab, Callinectes Sapidus,
W77-05763 1012 5C

Dissolved Gas Monitoring at Grand Coulee Dam and Lake Roosevelt,
W77-05764 1012 5B

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Nitrogen Supersaturation: One More Peril for Salmon and Steelhead,
W77-05768 1012 8I

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W77-05770 1012 8I

A Discussion of Nitrogen Supersaturation of Columbia River Water in Relation to Basic Phenomenon and the Physical Laws of Gases,
W77-05772 1012 5C

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

Effect of John Day Dam on Dissolved Nitrogen Concentrations and Salmon in the Columbia River, 1968,
W77-05774 1012 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Progress Report: July-September 1974. Effects of Super-Saturation of Dissolved Gases on Fish,
W77-05778 1012 5C

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

The Snake River Salmon and Steelhead Crisis, Its Relation to Dams and the National Energy Crisis,
W77-05781 1012 5C

Snake River Runs of Salmon and Steelhead Trout: Trends in Abundance of Adult and Downstream Survival of Juveniles,
W77-05783 1012 5C

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W77-05784 1012 5C

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W77-05785 1012 5C

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W77-05786 1012 5B

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Gas Bubble Disease,
W77-06018 1012 5C

Effects of Gas Supersaturation on Salmon in the Columbia River,
W77-06026 1012 5C

Nitrogen and Fish, Definition of Fishery Problems Caused by Nitrogen Supersaturation,
W77-06027 1012 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Bonneville Spillway Nitrogen Tests, 29-30 October 1972 Test Results,
W77-06029 1012 8I

Evaluation of Alternative Fish Barrier Systems for Pilgrim Nuclear Power Station,
W77-06032 1012 8I

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

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W77-06037 1012 5C

Bonneville Spillway Nitrogen Tests, 29-30 October 1972, Summary of Results,
W77-06039 1012 5C

Bonneville Spillway Test Deflector Installation in Bay 18. Preliminary Evaluation Report on Nitrogen Tests,
W77-06040 1012 5C

Chief Joseph Spillway Nitrogen Entrainment, Test of 17 November, 1972,
W77-06099 1012 8I

Sources of Gas Supersaturation in Water,
W77-06100 1012 5B

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Occurrence of Gas-Bubble Disease in Three Species of Bivalve Molluscs,
W77-06921 1014 5C

Observations on Gas Bubble Disease in Adult Columbia River Sockeye Salmon (Oncorhynchus Nerka),
W77-06924 1014 5C

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

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W77-06927 1014 5C

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

Carbon Dioxide and Oxygen-Nitrogen Ratios as Factors Affecting Salmon Survival in Air-Super-Saturated Water,
W77-07415 1015 5C

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

Supersaturation of Total Dissolved Gases: A Review of Current Literature,
W77-07425 1015 5C

Effects of Dams on Pacific Salmon and Steelhead Trout,
W77-07426 1015 5C

Second Status Report on Anadromous Fish Runs of the Columbia River,
W77-07427 1015 5C

Effect of Method of Introducing Well Water on the Growth, Body Chemistry and Incidence of Eye Abnormalities of Juvenile Brown and Rainbow Trout,
W77-07430 1015 5C

Spillway Redesign Abates Gas Supersaturation in Columbia River,
W77-07432 1015 5G

Dynamics of Gas Bubble Formation in Salmonids,
W77-07559 1015 5C

Decompression - Induced Bubble Formation in Salmonids: Comparison to Gas Bubble Disease,
W77-07706 1016 5C

Effects of Air-Supersaturated Water on Survival of Pacific and Steelhead Smolts,
W77-07707 1016 5C

Effects of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon,
W77-07708 1016 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Dissolved Gas Data Report, 1975-1976,
W77-07718 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

An Analysis of the Feasibility of Using Air Agitation to Reduce Gas Saturations in Sea Water at Pilgrim Nuclear Power Station,
W77-07720 1016 5G

Gas-Bubble Disease: A Review in Relation to Modern Energy Production,
W77-07721 1016 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

Notes on the Exposure of Several Species of Fish to Sudden Changes in the Hydrogen Ion Concentration of the Water and to an Atmosphere of Pure Oxygen,
W77-07725 1016 5C

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

Summary of Gas Supersaturation Research at Western Fish Toxicology Station (EPA), Corvallis, Oregon, 1972-1974.
W77-07729 1016 5C

Hyperoxygen Concentrations in the Hypolimnion Produced by Injection of Liquid Oxygen,
W77-09028 1018 5G

The Effect of High Concentrations of Dissolved Oxygen on Several Species of Pond Fishes,
W77-09789 1020 5C

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

Annotated Extracts of Some Papers Dealing with the Measurement and Solubility of Dissolved Atmospheric Gases, with Nitrogen Gas Supersaturation, and with Gas Bubble Disease in Fish,
W77-09792 1020 5C

Supersaturation of Atmospheric Gases in the Coastal Waters of the Gulf of Maine,
W77-09793 1020 5C

SUPERTANKERS
Supertankers and the Law of the Sea,
W77-11472 1022 6E

SUPERVISORY CONTROL (POWER)
Szeles--Natale, Inc. V Board of Commissioners of Swatara Township, Dauphin County (Flood Control Aided by Land Development Restraints),
W77-08992 1018 6E

SUPPLEMENTAL IRRIGATION
An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Effects on Ground-Water Quality from Irrigating Pasture with Sewage Effluent Near Lakeland, Florida,
W77-11381 1022 5B

SUPPLY
People and the Sound. Mineral Resources and Mining,
W77-06597 1013 6B

SUPPLY CONTRACTS
Clear Lake Apartments, Inc V Clear Lake Utilities (Exclusive Right to Provide Water Not a Covenant Running With the Land).
W77-03716 1008 6E

SUPPRESSION MODEL
Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

SUPRAGLACIAL STREAMS
An Examination of the Variance Minimization Tendencies of A Supraglacial Stream,
W77-05141 1011 2E

SUPRAPERMAFROST WATER
Suprapermafrost Water,
W77-06630 1014 2C

SURBER SAMPLER
Surber Sampling in Deep Water for Bottom Organisms,
W77-07199 1015 7B

SURF
Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

Surf-Turbine Generating System,
W77-04954 1010 8C

Computer Prediction of Nearshore and Surf Zone Statistics,
W77-05385 1011 2L

Observations of Wave Height and Wave Celerity in the Surf Zone,
W77-07770 1016 2L

Mechanism for Tapping the Surf Energy,
W77-08026 1016 8C

Breaking Waves,
W77-10317 1021 8B

Surf Observations and Longshore Current Prediction,
W77-12560 1024 2L

SURF CLAMS
The Atlantic Coast Surf Clam Fishery--1973,
W77-04565 1009 6C

SURF-ZONE
Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

SURF ZONE WAVES
Observations of Wave Height and Wave Celerity in the Surf Zone,
W77-07770 1016 2L

SURFACE-ACTIVE SUBSTANCES
The Effect of Surface-Active Substances on Pathogenic Enterobacteria in Water, (In Russian),
W77-00346 1001 5C

Determination of Non-Ionic Surface Active Substances in the Water Solutions (Oznaczanie niejonowych substancji powierzchniowo-czynnych w roztworach wodnych),
W77-06191 1013 5A

SURFACE ALBEDO
Atmospheric Dust and Surface Albedo: Effects on Desertification,
W77-03739 1008 2D

SURFACE COAL MINING
An Environmental Overview of United States Energy Futures,
W77-02650 1006 5G

SURFACE CURRENTS
Tide Prints: Surface Tidal Currents in Puget Sound,
W77-11653 1023 2L

SURFACE DEPRESSION
Micro-Relief Surface Depression Storage: Analysis of Models to Describe the Depth-Storage Function,
W77-04895 1010 2G

SURFACE DRAINAGE
Glassman V. Weldin Farms, Inc. (No Right in Upper Land Owner to Artificially Increase the Natural Drainage of Surface Water to Increase Flooding on Land of Lower Property).
W77-03518 1007 6E

From Good Husbandry to Reasonable Use: Illinois Surface Water Drainage Law Evolves in Subdivision Case,
W77-08353 1017 4A

The Application of Surface Water Rules in Urban Areas,
W77-10459 1021 6E

Land Disposal of Sewage Sludge, Volume IV (April , 1975 - March, 1976),
W77-12791 1024 5E

SURFACE EQUILIBRIA
Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W77-02535 1005 3A

SURFACE EVAPORATION RATES
Parameterization of Surface Evaporation Rate for Use in Numerical Modeling,
W77-10111 1021 2D

SURFACE FILM CONVECTION
Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

SURFACE-GROUNDWATER RELATIONSHIP
Upper Niobrara River Compact.
W77-00988 1002 6E

SURFACE-GROUNDWATER RELATIONSHIPS
Mechanism of Interaction of Weakly Mineralized Irrigation Water with Soil, (In Russian),
W77-00524 1001 2G

Model Analysis of Effects on Water Levels at Indiana Dunes National Lakeshore Caused by Construction Dewatering,
W77-00863 1002 4B

Effects of Water-Management Practices on the Flow of the South Platte River, Colorado,
W77-02303 1005 4B

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Effect of Groundwater Moisture on the Formation of the Sandy Soils of the Ket-Tym Region of the Ob River, (In Russian),
W77-02885 1006 2G

Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

Numerical Simulation Analysis of the Interaction of Lakes and Ground Water,
W77-05740 1012 2H

Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

Hydrologic Relations Between Lakes and Aquifers in a Recharge Area Near Orlando, Florida,
W77-06348 1013 4B

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

Surface-Groundwater Interactions and the Conjunctive Use of the Water Resources of the Mullica River Basin, New Jersey,
W77-08810 1018 4B

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

Integral Equation for the Description of Stream-Aquifer Interaction,
W77-09092 1018 2F

Section 1424(e) of the Safe Water Drinking Act: An Effective Measure Against Groundwater Pollution,
W77-09536 1019 5G

Method for Roughly Estimating the Water Exchange of a Reservoir with an Aquifer Hydraulically Connected with It,
W77-10321 1021 4B

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

Restricted Drainage and Its Effect on Rising Ground Water Table and Soil Salinity,
W77-11627 1023 4B

Hydrologic Evaluation of the Upper Duchesne River Valley, Northern Uinta Basin Area, Utah,
W77-12158 1023 4B

Theoretical Drawdown Due to Simulated Pumpage from the Ohio River Alluvial Aquifer Near Siloam, Kentucky,
W77-12379 1024 4B

SURFACE HEAT DISSIPATION
Thermal Loading of Natural Streams,
W77-09068 1018 5B

SURFACE IRRIGATION
He's Automating Dead Level Irrigation,
W77-02195 1005 3F

Making Surface Irrigation Work with Automation,
W77-02199 1005 3F

Herbicides and Surface Irrigation-Do They Make A Team,
W77-02200 1005 3F

Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

Fertilizer or Salt Leaching as Affected by Surface Shaping and Placement of Fertilizer and Irrigation Water,
W77-03072 1006 3F

Minimizing Canal Capacity for Irrigated Rice,
W77-05239 1011 3F

Management Model for Wastewater Disposal on Land,
W77-05923 1012 5E

Simulating Overland Flow in Border Irrigation,
W77-10170 1021 3F

SURFACE-MINED LAND ENHANCEMENT PROJECT (SMILE)
Project Proposal for Surface-Mined Land Enhancement (SMILE),
W77-01699 1004 5G

SURFACE MINING
Erosion and Runoff on Forest and Range Lands,
W77-00332 1001 4C

Freshwater Ecological Effects,
W77-02657 1006 5G

Debris Basins for Control of Surface Mine Sedimentation,
W77-06672 1014 5G

Demonstration of Coal Mine Haul Road Sediment Control Techniques,
W77-12559 1024 5G

SURFACE MINING RECLAMATION
Freshwater Ecological Effects,
W77-02657 1006 5G

SURFACE MIXED LAYER
Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

SURFACE RESISTANCE
Evaporation and Advection II: Evaporation Downwind of a Boundary Separating Regions Having Different Surface Resistances and Available Energies,
W77-06897 1014 2D

SURFACE RUNOFF
Estimation and Simulation of Sheet Runoff,
W77-00439 1001 4A

Proceedings of the Third Federal Inter-Agency Sedimentation Conference 1976.
W77-00775 1002 2J

Urban Storm Water Runoff: A Two-Fold Problem,
W77-01098 1003 6E

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Arizona's Frozen Assets: Snowpack Management,
W77-02106 1005 2C

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

The Application of HYMO to Study Areas of Southwestern Wyoming for Surface Runoff and Soil Loss Estimates,
W77-03729 1008 4A

Experiments with the Surface Heat and Water Budgets of the Canadian Middle North,
W77-03749 1008 2D

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

On the Run-Off Characteristics in the Nigori River and Ohora River Basins Considered by the Surface Run-Off (Hyomer ryushutsu o kangaeta nigori gawa oyobi ohora gawa ryuiki ni okeru shusui tokusei ni tsuite),
W77-05320 1011 2E

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

Harvesting Surface Runoff and Ephemeral Streamflow in Arid Zones,
W77-05946 1012 3B

The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Ponce de Leon Condominiums v Digirolamo (Developer Responsible for Control of Surface Runoff).
W77-08136 1017 6E

Anderson V Yearous (Rights of Dominant Owners to Unobstructed Use of Drainage Easements).
W77-08392 1017 6E

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Northwest Florida Water Management District,
W77-08467 1017 7C

The Hydrology of a Small Catchment Basin at Samaru, Nigeria: IV: Assessment of Soil Erosion Under Varied Land Management and Vegetation Cover;
W77-08698 1018 4D

Modeling the Performance of Feedlot-Runoff-Control Facilities,
W77-10157 1021 5B

Application of Permit Program to Separate Storm Sewers.
W77-10473 1021 5G

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

Storm Management Program is Model for Others,
W77-10612 1021 4A

Arkfeld V Volk (Drainage of Impounded Waters Via Deepened Road Ditches Permissible Absent Damage to Other Lands).
W77-11176 1022 6E

Estimation of Parameters of a Uniformly Nonlinear Surface Runoff Model,
W77-11985 1023 2E

A Multiple Input System Model for the Hydrological Basin,
W77-12089 1023 2A

Behaviour and Physical Stability of Sheetflow in Surface Runoff Models,
W77-12094 1023 2E

Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

Quality of Urban Freeway Storm Water,
W77-12500 1024 5B

Maryland Highway Drainage Study: Volume IV. Overland Flow on Areas Subject to Infiltration Losses,
W77-12547 1024 4C

SURFACE RUNOFF MODELS
Comparison of Two Mathematical Models of Surface Runoff,
W77-01334 1003 2E

SURFACE SEALING
Soil Surface Sealing Caused by Rain Drop Impact,
W77-11107 1022 2G

SURFACE TENSION
Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

SURFACE WATER
Surface Water Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 1. Ohio River Basin Above Kanawha River.
W77-01412 1003 7C

SURFACE WATER

Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

SURFACE WATER AVAILABILITY

Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

SURFACE WATERS

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 2. St. Lawrence River Basin Below Lake Huron.
W77-00431 1001 4A

Water Resources Data for Alabama, Water Year 1975.
W77-00435 1001 7C

Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 2. Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-00857 1002 7C

Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

History of Irrigation and Characteristics of Streamflow in Nebraska Part of the North and South Platte River Basins,
W77-00859 1002 2E

Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

Radioactivity in Kansas Surface Waters, January--December 1972.
W77-00955 1002 5A

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume 4. Northern Central Valley Basins.
W77-01413 1003 7C

Design of Surface Water Data Networks for Regional Information,
W77-01885 1004 7A

Surface Water Supply of the United States, 1966-70: Part 7. Lower Mississippi River Basin--Volume 1. Lower Mississippi River Basin Except Arkansas River Basin.
W77-02009 1004 7C

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 3. Basins from Maryland to York River.
W77-02307 1005 7C

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Hydrology of Lake County, Florida,
W77-02316 1005 4B

A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

Surface Water Supply of the United States, 1966-70: Part 1. North Atlantic Slope Basins--Volume 2. Basins from New York to Delaware.
W77-02980 1006 7C

Surface Water Supply of the United States, 1966-70: Part 11. Pacific Slope Basins in California--Volume 3. Southern Central Valley Basins.
W77-02981 1006 7C

Aspects of the Chemical Variability of some Tasmanian Inland Waters (Australia),
W77-03283 1007 2K

Chemical Composition of Some Inland Surface Waters in South, Western, and Northern Australia,
W77-03286 1007 2K

Measurement of 'Turbidity' and Related Characteristics of Natural Waters,
W77-03339 1007 7B

Glassman V. Weldin Farms, Inc. (No Right in Upper Land Owner to Artificially Increase the Natural Drainage of Surface Water to Increase Flooding on Land of Lower Property).
W77-03518 1007 6E

Kattor V Sabatini (No Right of Diverting Surface Water by Artificial Channel).
W77-03714 1008 6E

Water Availability, Quality, and use in Alaska.
W77-03883 1008 6B

Water Resources Data for Nebraska, Water Year 1975,
W77-03885 1008 7C

Water Resources of El Paso County, Colorado,
W77-03890 1008 6D

Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Water Resources of South-Central Missouri,
W77-04223 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 2. Susquehanna and Potomac River Basins.
W77-04228 1009 7C

Water Resources of the Big Fork River Watershed, North-Central Minnesota,
W77-04233 1009 7C

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Water Use in Mississippi, 1975,
W77-04972 1010 7C

Water Resources Data for Colorado, Water Year 1975--Volume 1. Missouri River Basin, Arkansas River Basin, Rio Grande Basin.
W77-04975 1010 7C

Water Resources Data for California, 1974: Part 2. Water Quality Records.
W77-04976 1010 7C

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Surface-Water Quality Management Models,
W77-05014 1010 5G

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Optimal Cropping Pattern for Basin in India,
W77-05240 1011 3F

Water Resources Data for California, Water Year 1975--Volume 4. Northern Central Valley Basins and the Great Basin From Honey Lake Basin to Oregon State Line,
W77-05263 1011 7C

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

Index of Surface-Water Stations in Texas, October 1976,
W77-05760 1012 7C

Use of Water in Arkansas, 1975,
W77-05761 1012 6D

Surface Runoff Washing of Clay Takyrs in Ridges with Holes, (In Russian),
W77-05938 1012 2G

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

Simplified Analysis of Surface Buoyant Jet,
W77-06298 1013 5B

Combined Use of Ground and Surface Waters for Irrigation,
W77-06309 1013 3F

Water Resources Data for Louisiana, Water Year 1976--Volume 1. Central and Northern Louisiana.
W77-06326 1013 7C

Water Resources Data for Louisiana, Water Year 1976--Volume 2. Southern Louisiana.
W77-06327 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Southwest Alaska,
W77-06328 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

Availability of Water Supplies in Northwest Georgia,
W77-06336 1013 4A

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply and Waste Disposal, Culebra, Puerto Rico,
W77-06345 1013 5E

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Classification of Surface Waters.
W77-06373 1013 5G

Modele Mathematique de Simulation du Systeme des Ressources Hydrauliques Superficielles du Llobregat,
W77-06727 1014 4A

Conjunctive Use of the Tajo-Segura Aqueduct Surface System and the Aquifers of the La Mancha Area,
W77-06728 1014 4B

Hybrid Computer Analysis of a Combined Surface Water--Groundwater System,
W77-06729 1014 4B

Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

Surface Water Network Design by Regression Analysis Simulation,
W77-06963 1014 2E

Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

Surface Water Supply of the United States, 1966-70--Part 15. Alaska.
W77-07493 1015 7C

Solutions to Green-Ampt Infiltration Equation,
W77-07553 1015 4A

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

Water Resources Data for Indiana, Water Year 1975,
W77-08162 1017 7C

Water Resources of the Myakka River Basin Area, Southwest Florida,
W77-08167 1017 4B

Water Resources Data for Illinois, Water Year 1975,
W77-08184 1017 7C

Water Resources Data for Nevada, Water Year 1975,
W77-08185 1017 7C

Quantitative Water Quality with Landsat and Skylab.
W77-08431 1017 5A

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Water Resources Data for Connecticut, Water Year 1975,
W77-08480 1017 7C

Water Resources Data for New York, Water Year 1975.
W77-08485 1017 7C

Water Resources Data for Washington, Water Year 1975.
W77-08737 1018 7C

Water Resources Data for Montana, Water Year 1975.
W77-08738 1018 7C

Water for Industrial and Agricultural Development in Attala, Holmes, Humphreys, Issaquena, Sharkey, and Yazoo Counties, Mississippi,
W77-08748 1018 4B

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Water Resources Data for Mississippi, Water Year 1975.
W77-09074 1018 7C

Water Resources Data for North Dakota, Water Year 1975.
W77-09075 1018 7C

Water Law - Well Permits - Unappropriated Water and Maximum Utilization, Hall v. Kuiper, 510 P.2d 329 (Colo. 1973),
W77-09543 1019 6D

Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

Water Resources Data for Ohio, Water Year 1975--Volume 1. Ohio River Basin.
W77-10000 1020 7C

Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

Water Resources Data For Wyoming, Water Year 1975.
W77-10002 1020 7C

Water Quality Program of the U.S. Geological Survey,
W77-10006 1020 5A

Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

The Application of Surface Water Rules in Urban Areas,
W77-10459 1021 6E

Water Resources Data for Texas, Water Year 1975--Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and Intervening Coastal Basins.
W77-10552 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin and Intervening Coastal Basins.
W77-10553 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin and Intervening Coastal Basins.
W77-10554 1021 7C

Public Water Supplies of North Carolina, Part 4. Northern Coastal Plain,
W77-10561 1021 6D

Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

Hydrologic Evaluation of Ashley Valley, Northern Uinta Basin Area, Utah,
W77-10564 1021 2A

Index of Published Surface-Water-Quality Data for Oklahoma 1946-1975,
W77-10567 1021 7C

Water Resources Data Bank in New Jersey and Computations of Extreme Flows,
W77-10830 1022 7C

Management of Groundwater and Surface Water Via Decomposition,
W77-10845 1022 4B

Water Resources Data for New Jersey, Water Year 1975.
W77-10854 1022 7C

Water Resources Data for Missouri, Water Year 1975.
W77-10855 1022 7C

Water Resources Data for Virginia, Water Year 1975.
W77-10856 1022 7C

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

Water Resources Data for Maine, Water Year 1975.
W77-11371 1022 7C

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

Water Resources Data for Maryland and Delaware, Water Year 1975.
W77-11373 1022 7C

Water Resources Data for Kansas, Water Year 1976.
W77-11374 1022 7C

Water Resources Data for Florida, Water Year 1975--Volume 2. Southern Florida.
W77-11876 1023 7C

Water Resources Data for Florida, Water Year 1975--Volume 1. Northern Florida.
W77-11877 1023 7C

Design of Surface Water Data Networks for Regional Information,
W77-12154 1023 7A

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

Water Resources Data for Nevada, Water Year 1976.
W77-12386 1024 7C

Water Resources Data for Alabama, Water Year 1976.
W77-12387 1024 7C

Water Resources Data for South Carolina, Water Year 1976.
W77-12388 1024 7C

Water Resources Data for Kentucky, Water Year 1976.
W77-12389 1024 7C

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

Fresh-Water Resources in the Southeastern Part of the Tularosa Basin,
W77-12392 1024 4A

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

SURFACES

Evaporation and Advection II: Evaporation Downwind of a Boundary Separating Regions Having Different Surface Resistances and Available Energies,
W77-06897 1014 2D

Hydrologic Optics. Volume VI. Surfaces,
W77-07961 1016 1A

Evaporation from a Warm, Wavy Surface: A Laboratory Study,
W77-09954 1020 2D

Experimental Determination of the Radio Emission of the Underlying Surface on Lambda = 2.1 CM,
W77-10322 1021 7B

SURFACTANT

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

SURFACTANT DEGRADATION (SOILS)

Degradation of a Nonionic Surfactant in Soils and Peat,
W77-09638 1020 5B

SURFACTANT DETERMINATION

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

SURFACTANTS

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Surfactant Structure and Aquatic Toxicity,
W77-01311 1003 5A

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Errors in Atomic Absorption Analysis for Metals in Surfactant Solutions,
W77-05110 1011 5A

Effect of Surfactants on the Determination of Fluoride in Waters,
W77-05431 1011 5A

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Rapid Colorimetric Analyses of Cationic and Anionic Surfactants,
W77-06251 1013 5A

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-II. Lethal Concentrations of Oil-Spill Emulsifier Components for Marine Phytoplankton, (In Japanese),
W77-07182 1015 5C

Assay of Detergent Residues in Fresh Water, Sea Water and Waste Waters: Method of Extraction and Concentration of Surfactants by Adsorption on Liquid-Liquid Interface, (In French),
W77-07591 1015 5A

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

Clay Adsorption Treatment of Non-Ionic Surfactants in Waste Water,
W77-08522 1017 5D

Degradation of a Nonionic Surfactant in Soils and Peat,
W77-09638 1020 5B

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Effect of Surfactants on the Determination of Aluminum in Waters,
W77-10151 1021 5A

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

Effect of a Surface-Active Agent on the Biological Purification of Industrial Effluents (Vliyanie poverkhnostnoaktivnogo veshchestva na protsess biologicheskoi ochistki promstokov),
W77-12352 1024 5D

SURGEON FISH TOXICITY

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

SURGES

Reconstruction of Some of the Early Storm Surges on the Great Lakes,
W77-02797 1006 2H

Effects of Hurricane Surge Barrier on Hydraulic Environment, Jamaica Bay New York; Hydraulic Model Investigation,
W77-02966 1006 8B

Temperature-Gradient Induced Mass-Instability Theory of Glacier Surge,
W77-05423 1011 2C

Surge Effects from Hurricane Eloise,
W77-06085 1012 2L

SURIVAL OF SEAL PUPS

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

SURPLUS WATER
Suspension and Restoration of Right to Appropriate.
W77-03508 1007 6E

SURVEYS
Lake Powell Sedimentation Surveys,
W77-00819 1002 2J

Municipal Watershed Management Survey,
W77-01422 1003 4D

National Eutrophication Survey Methods 1973-1976.
W77-01787 1004 5A

National Eutrophication Survey: Data Acquisition and Laboratory Analysis System for Lake Samples,
W77-01788 1004 5A

Soil Moisture Survey Experiment at Phoenix, Arizona,
W77-01914 1004 2G

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02041 1004 5C

Application of Landsat to the Surveillance and Control of Lake Eutrophication in the Great Lakes Basin,
W77-02042 1004 5C

Surveying America's Lakes.
W77-02375 1005 5C

A Sequential Approach to the Counting of Plankton Organisms,
W77-02721 1006 7B

Increase of Sediment Transport Due to Large-Scale Urbanization,
W77-02790 1006 4C

A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; An Electrofishing Survey of the Illinois River,
W77-03302 1007 8I

Structure of the Glacier Charles Rabots Bre, Norway,
W77-03311 1007 2C

Sediment Mass Balance of a Large Estuary, Long Island Sound,
W77-03323 1007 2L

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

Environmental Concern as a Factor in Coastal Zone Development: A Study of Louisiana Citizens,
W77-03590 1007 6G

A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

*Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

Algal Assays for the National Eutrophication Survey,
W77-04157 1009 5A

Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Inventory of Waste Water Production and Waste Water Reclamation in California 1973.
W77-04558 1009 5D

Is There a 'Sludge Market',
W77-04727 1010 5E

Genesee County Parks and Recreation Study,
W77-05214 1011 6B

Climatological and Photogrammetric Speculations on Mass-Balance Changes of McCall Glacier, Brooks Range, Alaska,
W77-05426 1011 2C

Significance of Egg and Larval Surveys in the Studies of Population Dynamics of Fish,
W77-05833 1012 2L

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

The Abundances, Distribution and Flux of Nutrients and Chlorophyll A in the New York Bight Apex,
W77-06503 1013 5C

Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

The Distribution, Abundance and Diversity of the Epifaunal Benthic Organisms in Two (Alitak and Ugak) Bays of Kodiak Island, Alaska,
W77-06849 1014 6G

Effects of Engineering Activities on the Ecology of Pismo Clams,
W77-06886 1014 5C

Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Beaufort Sea Plankton Studies,
W77-07414 1015 6G

The Environmentally Concerned Citizen: Some Correlates,
W77-07438 1015 6G

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

Proceedings of the NASA Earth Resources Survey Symposium, June 1975, Technical Session Presentations, Water Resources, Volume I-D,
W77-08062 1016 7B

The Use of Skylab and LANDSAT in a Geohydrological Study of the Paleozoic Section, West-Central Bighorn Mountains, Wyoming,
W77-08063 1016 7B

Hydrogeological Investigations in the Pampa of Argentina,
W77-08064 1016 7B

State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

Resurvey of the 'Byrd' Station, Antarctica, Drill Hole,
W77-08227 1017 2C

A Further Comparison of Glacier Velocities Measured by Radio-Echo and Survey Methods,
W77-08228 1017 2C

Applications of Surface Resistivity Methods,
W77-08244 1017 2F

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

Hydrographic Surveying Turns to Electronics,
W77-09105 1019 7B

Recording River and Reservoir Water Depth,
W77-09106 1019 7B

Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

Research Projects in Glaciology - 1976.
W77-09220 1019 2C

NOAA Ship Albatross IV Cruise 74-5 Report of May 9-24, 1974 Survey of Deepwater Dumpsite 106,
W77-09244 1019 5B

Remote Sensing Methods and Problem of Natural Resource Inventory, (In Russian),
W77-09311 1019 7B

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

SURVEYS

Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

Analysis of Data from Biological Surveys of Streams: Diversity and Sample Size,
W77-09778 1020 5A

Acoustic Oceanography,
W77-10318 1021 2L

Cabora Bassa Fish Populations Before and During the First Filling Phase,
W77-10380 1021 2H

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Integrated Surveys of Land and Water Resources for Development Purposes,
W77-10824 1022 6A

Environmental Modeling and Decision Making: The United States Experience.
W77-10839 1022 6A

Ecological Modeling.
W77-10841 1022 6A

Survey of Fish Impingement at Power Plants in the United States, Volume I. The Great Lakes,
W77-11125 1022 8I

Survey of Fish Impingement at Power Plants in the United States, Volume II. Inland Waters,
W77-11126 1022 8I

Survey of Fish Impingement at Power Plants in the United States, Volume III. Estuaries and Coastal Waters,
W77-11127 1022 8I

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

Attitudes and Social Characteristics of Farm and Rural Non-Farm Persons Living Adjacent to the Sheyenne River of North Dakota,
W77-12271 1024 6B

How to Conduct a Wastewater Survey, Part I - Identifying Physical Characteristics of Sewer Systems,
W77-12465 1024 5G

Land Application of Effluents in the Rocky Mountain-Prairie Region,
W77-12489 1024 5E

Salinity Survey in Israel,
W77-12767 1024 2K

SURVIVAL (PATHOGENS)

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

SURVIVAL RATES

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

SURVIVAL RATES (DAPHNIA)

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

SURVIVAL TIME

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

SUSPENDED LOAD

Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

Qualitative Composition of Irrigation Water and Suspended Load of the Ordzhonikidze Irrigation System, (In Russian),
W77-02890 1006 5B

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Determining Suspended Sediment Loads from Turbidity Records,
W77-04988 1010 2J

Experimental Sediment Addition Studies on the Harris River, N.W.T., Canada: The Effect on Macroinvertebrate Drift,
W77-07455 1015 5C

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

Genetic Analysis of the Suspended Load Discharge of Mountain Rivers,
W77-10778 1021 2J

Assessing the Accuracy of Suspended Sediment Rating Curves for a Small Basin,
W77-11210 1022 2J

Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

SUSPENDED PARTICLES

A Fundamental Study of Removal Mechanisms of Suspended Particles in the Deep Filter (III) (Kyusoku rokaroso no kyodo (III): Teijo rokaji no rihaku to sono sayo kiko no kento),
W77-11829 1023 5D

SUSPENDED PARTICULATES

Heavy Metal Levels in Suspended Particulates, Biota, and Sediments of the St. Croix Estuary in Maine,
W77-04176 1009 5B

SUSPENDED SEDIMENT

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

SUSPENDED SEDIMENT CONCENTRATION

Estimating the Suspended Sediment Load in Reservoirs,
W77-09331 1019 2J

SUSPENDED SEDIMENTS

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

SUSPENDED SOLIDS

Behavior of Mercury in Suspended Solids and Bottom Sediments,
W77-00007 1001 5C

The Influence of Hydrological Conditions on Dissolved and Suspended Constituents in the Missouri River,
W77-00184 1001 5C

The Use of ERTS-1 to More Fully Utilize and Apply Marine Station Data to the Study and Productivity Along the Eastern Shelf Waters of the United States,
W77-00198 1001 5A

Diminution of Suspended Solids in Pulp and Paper Industry Effluents by Treatment with Chemical Coagulants (Diminuarea continutului de suspensii totale in apele reziduale din industria celulozei si hirtiei, prin tratarea cu agenti chimici coagulanti),
W77-00323 1001 5D

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Aggregation Treatment Apparatus for Waste Water,
W77-00560 1002 5D

Simple Method Measures Suspended Solids,
W77-00596 1002 5A

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

Sediment Yield from Steep Lands in the Driftless Area,
W77-00786 1002 2J

The Dilemmas of Setting Sediment Standards,
W77-00806 1002 5G

Control of Turbidity at Construction Sites,
W77-00808 1002 4D

The Use of Color Infrared Photography for the Determination of Suspended Sediment Concentrations and Source Areas,
W77-00844 1002 2J

Natural Filtering of Suspended Soil by a Stream at Low Flow,
W77-01428 1003 4C

Investigation of the Problem of Determining Total Suspended Solids in Pulp and Paper Effluents,
W77-01652 1004 5A

Effects of Suspended Solids on Selected Estuarine Plankton,
W77-01784 1004 5C

Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

Instantaneous Metering Aids - Activated Sludge Plant,
W77-02381 1005 5A

Rare Earth Element Supply to the Ocean,
W77-02478 1005 2L

SKYLAB Study of Water Quality,
W77-02505 1005 5A

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

Sampling and Analysis of Stormwater Runoff from Urban and Semi-Urban/Rural Watersheds - Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities,
W77-02995 1006 5B

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

Variations of Coliform Bacteria and Other Pollution Indices in Surface Waters.
W77-03539 1007 5B

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

Suspended Solids and Velocity Distributions in the Ottawa River,
W77-03655 1008 2J

Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-A and Suspended Solids in the Patuxent River,
W77-03785 1008 5A

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Reduction of Suspended Solids in Woodroom Effluents (Reduksjon av suspendert materiale i avlopsvann fra tommerrenserier),
W77-04810 1010 5D

Instrumentation: Automatic Collection of Sediment Data,
W77-04987 1010 2J

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

Suspended Solids Removal,
W77-05710 1012 5D

New System Provides for Growth,
W77-06152 1013 5D

Foam and Film of Fresh Waters as an Ecological Niche of Aquatic Hyphomycetes, (In Russian),
W77-06787 1014 2I

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

Satellite Observations of Water Quality,
W77-07554 1015 5A

Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

Two-Stage Filtration of Secondary Effluent,
W77-07907 1016 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

Suspended Solids Measurement Gives Improved Control,
W77-08568 1017 5A

Contributions of Suspended and Dissolved Substances to the Arctic Ocean During Breakup of the Colville River, Alaska,
W77-09503 1019 5C

The Motion of a Small Sphere in a Rotating Velocity Field: A Possible Mechanism for Suspending Particles in Turbulence,
W77-10108 1021 2L

Effects of Siltation on Rates of Recharge,
W77-10378 1021 4B

Chlorination Seems Best for Removing Suspended Solids from Lagoon Effluents,
W77-10652 1021 5D

Traditional Methods of Water Purification in the Riverain Sudan in Relation to Geographic and Socioeconomic Conditions,
W77-11620 1023 5D

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

McAlpine Win Effluent Treatment Works Contracts.
W77-11667 1023 5D

Treatment of Water and Effluent by Air Flotation.
W77-11717 1023 5D

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

Remove Algae and High Costs Together,
W77-11755 1023 5D

Characterization of Suspended Particles in Some Pulp and Paper Mill Effluent Plumes,
W77-12058 1023 5B

The Swirl Concentrator for Erosion Runoff Treatment,
W77-12080 1023 5D

A New Method of Computation of the Suspended Sediment Load,
W77-12098 1023 2J

Waste Water Treatment System.
W77-12451 1024 5D

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

Catchbasin Technology Overview and Assessment,
W77-12495 1024 5D

Sewage Treatment Apparatus,
W77-12935 1024 5D

Aerobic Sewerage Digestion Process (42 C. Process),
W77-12942 1024 5D

SUSPENSION

Tripton Sedimentation in Eutrophic Lakes--Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

SUSQUEHANA RIVER BASIN (NY)

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Background Information Appendix.
W77-09381 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Binghamton Wastewater Management Study: Comments Appendix.
W77-09383 1019 5G

Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

SUSQUEHANNA RIVER

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

SUSQUEHANNA RIVER BASIN

Flow Routing in the Susquehanna River Basin: Part I - Effects of Raystown Lake on the Low-Flow Frequency Characteristics of the Juniata and Lower Susquehanna Rivers, Pennsylvania,
W77-12380 1024 4A

SUSQUEHANNA RIVER BASIN (PA)
Strontium Isotopes in Selected Streams Within the Susquehanna River Basin,
W77-05160 1011 2E

SUSQUEHANNA RIVER (NY)
Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

SUSSEX COUNTY RIVER BASIN (DEL)
State of Delaware Sussex County River Basin, Water Quality Management Plan.
W77-04857 1010 5G

SUTTER BASIN
A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

SUWANNEE RIVER BASIN (FLA)
Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

Dissolved Solids, Hardness, and Orthophosphate of Surface-Water Runoff in the Suwannee River Water Management District, Florida,
W77-10556 1021 5B

SUWANNEE RIVER (FL)
Upper Suwannee River: Evaluation of a Proposed DRI as an Area of Critical State Concern.
W77-12584 1024 6G

SWAMP FOREST ECOSYSTEMS
Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

SWAMPS
The Social and Economic Importance of the Caroni Swamp in Trinidad and Tobago,
W77-00893 1002 6G

The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

Flood Plain Information: Ipswich River, North Reading and Wilmington, Massachusetts,
W77-07644 1016 4A

Hydrochemistry of the Nigula Swamp, (In Estonian),
W77-07859 1016 2H

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

Fractionation and Control of Iron in Channelized and Swamp Drainage Streams in North Carolina,
W77-08510 1017 5B

Effects of Stream Channelization on Bottomland and Swamp Forest Ecosystems,
W77-08920 1018 4A

Seasonal Patterns of Dissolved Oxygen, Nutrients, and Metals in Natural and Channelized Swamp Streams,
W77-08932 1018 5B

Studies of the Fish Populations in Two Eastern North Carolina Swamp Streams,
W77-09062 1018 2I

The Aquatic Thermal Capsule,
W77-09486 1019 5C

The Great Dismal Swamp: Management of a Hydrologic Resource with the Aid of Remote Sensing,
W77-10007 1020 2H

Submersible and Submerged Lands (State Ownership or Jurisdiction).
W77-10497 1021 6E

Investigation of the Hydrological Balance in a Peat Swamp,
W77-10768 1021 2F

Using Wetlands for Wastewater Treatment.
W77-11700 1023 5D

A Swampland Model,
W77-12085 1023 2E

SWAZILAND
New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

SWEDEN
Deposition of Airborne Mercury from Six Swedish Chlor-Alkali Plants Surveyed by Moss Analysis,
W77-00186 1001 5A

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Some Aspects of Municipal Overflow Reservoir Monitoring, (In Swedish),
W77-02228 1005 5A

The Ways of Transport of Mercury to Fish,
W77-03675 1008 5B

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

Black and White Episodes,
W77-06364 1013 5A

Water Pollution from Industrial Sources in Sweden and Recent Trends to Prevent It,
W77-06383 1013 5G

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

Water Quality Criteria and Waste Water Treatment,
W77-07522 1015 5D

Literature on Environmental Protection, Management and Hygiene in Sweden 1952-1971: Bibliography and Analysis, (In Swedish),
W77-07586 1015 6G

Biological Long-Term Investigations of Swedish Lakes,
W77-07998 1016 5C

The Use of LANDSAT-1 Imagery for Water Quality Studies in Southern Scandinavia,
W77-08435 1017 5A

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

A Method of Calculating the Hydraulic Properties of Leaky Aquifer Systems,
W77-11605 1023 2F

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

Acid Precipitation: A World Concern,
W77-12810 1024 5A

SWEET POTATOES
The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

SWELLING SOILS
The Application of the Overburden Potential Theory to Swelling Soils,
W77-05167 1011 2G

Comparisons of Two Models for Predicting the Relative Hydraulic Conductivity of Salt-Affected Swelling Soils,
W77-07777 1016 2G

SWIFT RIVER (MA)
Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

SWIM BLADDERS
Experiments on the Resistance of Fish to Rapid Increase in Hydrostatic Pressure,
W77-07416 1015 5C

SWIMBLADDER
Dissolved Nitrogen as a Tracer of Fish Movements,
W77-05461 1011 5B

Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

SWIMBLADDER GAS PRESSURE
Swim Bladder Gas Pressure of Cod in Relation to Hydrostatic Pressure,
W77-07417 1015 5C

SWIMMING
Benefits from Water Pollution Abatement, Beach Closings and Reopenings.
W77-01985 1004 5G

Swimming of Slender Fish in a Non-Uniform Velocity Field,
W77-02155 1005 2L

Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

SWINE MANURE
Hog Manure Worth $3.50 Per Ton as Fertilizer.
W77-11969 1023 5B

SWINE-WASTE LAGOONS
Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

SWINE WASTES
Accumulation of Nutrients in Soil Beneath Hog Manure Lagoons,
W77-11967 1023 5B

SWIRL CONCENTRATOR
The Swirl Concentrator for Erosion Runoff Treatment,
W77-12080 1023 5D

SWITZERLAND
Purification of Waste Waters at Cellulose Attisholz (Epuration des eaux residuaires a la fabrique de Cellulose de Attisholz),
W77-02577 1006 5D

The Phosphorus Pollution of Waters Due to Agriculture, (In German),
W77-03134 1007 5B

Biogeochemical Development of the Lake of Geneva (Switzerland) from 1957 to 1973: Part III, (In French),
W77-03144 1007 5C

Heavy Metal Pollutants in the Sediments of the Rhone River,
W77-03651 1008 5B

Experiences in Closing the Water System in a Paper and Board Mill (Erfahrungen bei der Kreislaufschliessung einer Papier- und Kartonfabrik),
W77-03818 1008 5D

Water Ozonation in Fish Culture, (In German),
W77-04591 1009 5F

Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne: Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

Dynamics of O2 and CO2 Exchange, Photosynthesis, and Respiration in Rivers from Time-Delayed Correlations with Ideal Sunlight,
W77-07364 1015 5C

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

SWITZERLAND (EMMENTAL)
Changes in Forest Structures in the Emmental Expressed in the Tree Count and Distribution and the Possible Long-Term Deterioration of Water Utilization, (In German),
W77-04778 1010 4A

SWITZERLAND (LAKE CADAGNO)
Fishery Management in a Meromictic Alpine Lake (Lake Cadagno, Ticino), (In German),
W77-04627 1010 2H

SWITZERLAND (WASTE REGULATIONS)
Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. I. Introduction and Future Prospects of Protective Planning (Verfahrens-technische Unterlagen im Hinblick auf die neuen Gewaesserschutz-anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. I. Einfuehrung und Perspektive im Hinblick auf die Gewaesserschutzplanung),
W77-06182 1013 5D

SWORDFISH
Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

SYDNEY (AUSTRALIA)
Quality Characteristics of Urban Storm Water in Sydney, Australia,
W77-05963 1012 5B

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

SYDNEY (N.S.W.)
The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

SYMBIOSIS
Wastes Find Fertile Field as Low-Cost Plant Nutrients,
W77-00050 1001 5E

Water-Reuse Systems Star at Cincinnati Aiche Meeting,
W77-00054 1001 5D

SYNCHRONISM (LAKES)
A Note on the Synchronism of Highly Correlated Lakes,
W77-05142 1011 2H

SYNCHRONIZERS
An Investigation of Techniques to Expedite Synchronizing for Pump-Storage Units and Standby Generating Units,
W77-01686 1004 8C

SYNCHRONOUS FLUORESCENCE SPECTROSCOPY
Synchronous Fluorescence Spectroscopy and Its Application to Indigenous and Petroleum-Derived Hydrocarbons in Lacustrine Sediments,
W77-12225 1023 5A

SYNECHOCOCCUS-BACILLARIS
Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

SYNECHOCYSTIS AQUATILIS
In Vivo Excretions of the Blue-Green Algae Anacystis Nidulans and Synechocystis Aquatilis in Mono- and Mixed Cultures,
W77-10755 1021 5C

SYNEDRA
Effects of Light, Magnesium, and Cyanide on Accumulation of Mercury by a Fresh Water Diatom, Synedra,
W77-05615 1012 5C

SYNERGISM
An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

Synergistic Effects of Marine Pollution,
W77-10202 1021 5C

SYNERGISTIC ACTIVITY
Composition and Method of Inhibiting Growth of Slime in Water,
W77-08027 1016 5G

SYNERGISTIC EFFECTS
Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

SYNERGISTS
Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

SYNOPTIC ANALYSIS
Experiences with the Use of the Aerological Method in Evaporation Studies in Northwestern Europe,
W77-09710 1020 2D

SYNOPTIC CONDITIONS
Control of Mesoscale Disturbance by Synoptic Conditions,
W77-05138 1011 2H

SYNTHANE PROCESS
Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

SYNTHESIS GAS
Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

SYNTHETIC APERTURE RADAR
Precipitation Mapping with an Airborne Synthetic Aperture Imaging Radar,
W77-12804 1024 2B

SYNTHETIC DETERGENTS
The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

SYNTHETIC GAS
Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

SYNTHETIC HYDROLOGY
Design Flood Synthesis by Excess Rain Routing,
W77-01452 1003 2A

Generation of Synthetic Flow Sequences,
W77-05011 1010 2E

Shot Noise Models for the Generation of Synthetic Streamflow Data,
W77-05955 1012 2E

Generation of Multivariate Synthetic Flows,
W77-07610 1016 2A

The Representation of a Short Period of Experimental Catchment Data by a Linear Stochastic Difference Equation,
W77-07646 1016 2

Some Applications of Stochastic Flow Generation,
W77-07647 1016 2A

Problems Encountered in Synthetic River Flow Generation Procedures,
W77-07657 1016 2A

The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

In Hydrology h is a Household Word,
W77-07667 1016 2A

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

Bayesian Generation of Synthetic Streamflows, 2. The Multivariate Case,
W77-09349 1019 2E

Probabilistic Models for Multiple and Synthetic Hydrologic Variables,
W77-10301 1021 2A

Stochastic Properties of the Processes Transformed in Linear Hydrological Systems,
W77-10436 1021 2A

Generation of Hydrologic and Water Resources Samples,
W77-10441 1021 2A

Correlation Constraints for Generating Processes,
W77-11385 1022 2A

Determination of Instantaneous Unit Hydrographs By Least Squares Polynomials,
W77-12086 1023 2E

SYNTHETIC HYETOGRAPH
Synthetic Design Hyetograph and Rational Runoff Coefficient,
W77-02135 1005 2E

SYNTHETIC OIL
Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

SYNTHETIC RUBBER
Joint Sealing Problems in Water Retaining Structures in Johannesburg,
W77-01479 1003 8G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

SYNTHETIC RUNOFF RECORD
The Generation of Synthetic Monthly Runoff Records for Ungauged British Catchments,
W77-07661 1016 2A

SYNURA
On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

SYR-DARYA RIVER
Biology of the Snakehead in the Syr Darya Basin, (In Russian),
W77-01427 1003 2I

SYRACUSE (NY)
Salt Storage and Runoff in Urban Watershed,
W77-01336 1003 5B

SYRDARYA RIVER (MIDDLE ASIA)
Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

SYRIA
Evaporation and Salt Movement in Soils in the Presence of Water Table,
W77-11231 1022 2D

SYSLAB PROGRAMS
A Bivariate-Regression Model for Estimating Chemical Composition of Streamflow or Groundwater,
W77-02317 1005 5B

SYSTEM EFFICIENCY
The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

SYSTEM MODELS
Towards System Models for Water Resource Management,
W77-07544 1015 6A

SYSTEM SCIENCE
La Science des Systemes dans la Planification des Ressources en Eau,
W77-06736 1014 6A

SYSTEMATICS
Microorganisms as Indicators of the Environmental Hygiene: Ecology, Taxonomy and Enumeration, (In Dutch),
W77-00348 1001 5A

Phylogeny of the Family Calanidae(Copepoda) on the Basis of a Comparative Morphological Analysis of its Characters,
W77-00394 1001 5C

Aquatic Oligochaeta Recoreded from Canada and the St. Lawrence Great Lakes,
W77-00925 1002 2H

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

Experimental Studies on the Second Intermediate Hosts of Clonorchis Sinesis: III. Observations on the Relationship Between Clavate Cells of Epidermis and Infectivity of Metaceracariae of Clonorchis Sinesis in Freshwater Fish, (In Korean),
W77-03161 1007 5C

A Comparison of Larvae of the Deepwater and Fourhorn Sculpin, Myoxocephalus Quadricornis L. From North America. I. Morphological Development,
W77-04530 1009 2I

Morphological Studies of Two Pristigasterinae Larvae From Southern Brazil,
W77-04531 1009 2I

Larvae of Some Flat Fishes From a Tropical Estuary,
W77-04532 1009 2L

Early Life History of Limanda Yokohamae (Gunther),
W77-04533 1009 2I

The Diverse Patterns of Metamorphosis in Gonostomatid Fishes-An Aid to Classification,
W77-04534 1009 2I

Present State of Billfish Larval Taxonomy,
W77-04535 1009 2I

Analysis of the Taxonomic Characters of Young Scombrid Fishes, Genus Thunnus,
W77-04536 1009 2I

The Larval Taxonomy of the Primitive Myctophiform Fishes,
W77-04537 1009 2I

The Role of Larval Stages in Systematic Investigations of Marine Teleosts: The Myctophidae, A Case Study,
W77-04538 1009 2I

Inland Waters. Monographs from Limnology and Related Areas, Vol. 26, Part 1. The Zooplankton of Inland Waters,
W77-08861 1018 2H

On the Occurrence of the Species of Synura (Chrysophyceae),
W77-09476 1019 5C

Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

A Species of Styloscolex Michaelsen (Oligochaeta, Lumbriculidae) Found in Two Lakes in Northern Alaska,
W77-09513 1019 5C

Melosira Granulata (Ehr.) Ralfs: Morphology and Ecology of a Cosmopolitan Freshwater Diatom,
W77-09619 1020 5C

A Bew Species of Mastacembelus (Pisces, Mastacembelidae) from the Upper Zambezi River, with a Discussion of the Taxonomy of the Genus from this System,
W77-11556 1023 2I

SYSTEMS ANALYSIS
Conceptual Framework of Environmental Management,
W77-00178 1001 6G

The Environment and the Structure of Social Goals,
W77-00181 1001 5G

Program Specification for the Sewer and Water Accounts Processing Module - Reading USAC Project.
W77-00773 1002 5G

'Approaches to Multi-Objective Planning in Water Resource Projects,' by Bernard W. Taylor III, K. Roscoe Davis, and Ronald M. North,
W77-01510 1003 6B

Food Processing Residuals Management a Systems Approach,
W77-01813 1004 3E

Mathematical Models for Use in Planning Regional Water Resources and Energy Systems,
W77-02079 1005 6A

A Comprehensive Systems Engineering Study of the True Economic Value of Unpolluted Water Versus Varying Degrees of Polluted Water,
W77-02220 1005 5G

User Oriented Systems Analysis for Regional Municipal Water Supply Planning,
W77-03159 1007 6A

A Selected Annotated Bibliography on the Analysis of Water Resource Systems, Seventh Volume.
W77-03967 1008 6A

Management of Large-Scale Environmental Modeling Projects,
W77-04502 1009 6G

Introductory Remarks on the State Space Modeling of Water Resource Systems,
W77-04506 1009 6A

A Systems Analysis Model for Calculating Radionuclide Transport Between Receiving Waters and Bottom Sediments,
W77-04516 1009 5B

Toward Simulation and Systems Analysis of Nutrient Cycling in the Okefenokee Swamp, Georgia,
W77-05005 1010 5B

Systems Approach to Water Management.
W77-05008 1010 6A

Systems Approach to Water Management,
W77-05009 1010 6A

Generation of Synthetic Flow Sequences,
W77-05011 1010 2E

Engineering, Sanitary and Municipal Modeling, Identification and Control of a Dynamic and Stochastic Chemical Biological Process,
W77-05330 1011 5D

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W77-06534 1013 6E

La Science des Systemes dans la Planification des Ressources en Eau,
W77-06736 1014 6A

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

Environmental Assessment: The Ecological Dimension,
W77-08034 1016 6G

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

The Role of Systems Analysis in the Use of Agricultural Wastes,
W77-09282 1019 5G

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

SYSTEMS ENGINEERING
Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

T ZILLII
Biological Aquatic Weed Control by Fish in the Lower Sonoran Desert of California,
W77-11423 1022 4A

TACONITE TAILINGS
Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Synergistic Effects of Phosphate and Manganese on Growth of Lake Superior Algae,
W77-07448 1015 5C

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

TADPOLES
The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

TAGGING
Movements of Tagged Juvenile Menhaden (Brevoortia Patronus) in the Gulf of Mexico,
W77-02066 1004 8I

Summary of Recaptures of Fish Tagged at Two Power Plants Between 1972 and 1974,
W77-11147 1022 5C

TAHOE-TRUCKEE WATER SYSTEM (NEV AND CALIF)
Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

TAIGA
Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
W77-00511 1001 2G

TAILWATER
Reducing Tailwater Runoff for Efficient Irrigation Water Use,
W77-11412 1022 3F

Irrigation Tailwater Loss and Utilization Equations,
W77-12506 1024 3F

TAILWATER RECOVERY
Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

TAIWAN
Thermal Waters in Taiwan, A Preliminary Study,
W77-08685 1018 4B

TAKING
Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

TAKING (CONSTITUTIONAL)
Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

TAKYR SOILS
Physical and Chemical Properties of Takyr Soils and Changes in Their Agrochemical Properties After Irrigation, (In Russian),
W77-02929 1006 3F

Effect of Soil Reclamation on Hydrophysical Properties of Desert Takyr Soils, (In Russian),
W77-04799 1010 2G

TAKYRS
Forest Site Conditions of Barchans Underlain by Takyrs, (In Russian),
W77-09497 1019 2G

TALC-CELITE
Comparison of Talc-Celite and Polyelectrolyte 60 in Virus Recovery From Sewage: Development of Technique and Experiments with Poliovirus (Type 1, Sabin)-Contaminated Multilitre Samples,
W77-04708 1010 5D

TALL OIL
Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

TAMPA BAY (FLA)
The Possible Role of Spartina Alterniflora Loisel in Establishment of Mangroves in Florida,
W77-03948 1008 5G

Seasonal Distribution of a Podocopid Ostracod in a Thermally Altered Area of Tampa Bay, Florida,
W77-05577 1011 5C

Chronic In Situ Exposure of the Bay Scallop to Power-Plant Effluents,
W77-05578 1011 5C

The Macrobenthic Community of a Thermally Altered Area of Tampa Bay, Florida,
W77-05585 1011 5C

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

TAMPA BYPASS CANAL (FLA)
Hydrologic Effects of the Tampa Bypass Canal System,
W77-08182 1017 4A

TANKER TERMINALS
Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Long Beach Harbor Numerical Analysis of Harbor Oscillations; Report 2, Alternate Plans for Pier J Completion and Tanker Terminal Project,
W77-10040 1020 8B

TANKERS
A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

TANKS
Experiments on Wastewater Sedimentation,
W77-03574 1007 5D

TANKS (CONTAINERS)
Seismic Design of Liquid-Storage Tanks,
W77-08859 1018 8D

TANNERY WASTES
Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolytically Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

Investigation of Commercial Chrome-Tanning Systems: Part VI. Full-Scale Trials of Chrome Liquor Recycling and the Importance of Salt Concentration,
W77-02594 1006 5D

Eighth Meeting of the IULTCS Tannery Wastes Commission, Svendborg, Denmark, 21st to 23rd May 1975.
W77-02603 1006 5D

Treating Effluent Containing Compounds Pref. Dyes - By Adding Salt Generator of Opposite Charge to Effluent Ion then Ultra-Filtering.
W77-02612 1006 5D

Air and Water Purification - with Acid Chlorite Solution.
W77-02613 1006 5D

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

The Purification of Industrial Effluent.
W77-02615 1006 5D

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Two New Methods of Sludge Removal,
W77-07224 1015 5D

A Mini-Pollution Tannery,
W77-07225 1015 5D

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

Tanners' Council of America V Train (Review of Effluent Limitations for Tanning Industry).
W77-09578 1019 6E

Anglian Opens Its Largest Sewage Treatment Works.
W77-10621 1021 5D

TANNIN
Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

TANYOPODINAE
Limnological Studies of the Island Area of Western Lake Erie,
W77-11926 1023 2H

TANYPODINAE
Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

TAPES DECUSSATUS
Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

TAPEWORM
The Invasion of Rate of Fish Yearlings with Plerocercoids of the Broad Fish Tapeworm in the Kama Water Reservoir, (In Russian),
W77-00541 1002 2I

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

TAPEWORMS
Experience in Using Parasites for a Quantitative Evaluation of Fish Feeding, (In Russian),
W77-09400 1019 2I

TAR ANALYSIS
Analyses of Tars, Chars, Gases, and Water Found in Effluents from the Synthane Process,
W77-10989 1022 5A

TAR BALL POLLUTANTS
Sources of Tar Pollution on Israeli Mediterranean Coast,
W77-08852 1018 5B

TAR BALLS
Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

TAR LUMPS
Distribution and Source of Tar on the Pacific Ocean,
W77-03191 1007 5B

TAR-NEUSE RIVER BASIN (NC)
An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

TARKIO RIVER (IOWA-MO)
Erosion of the Tarkio Drainage System, 1845-1976,
W77-11796 1023 2J

TASEK BERA SWAMP (MALAYSIA)
Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

TASHKENT OBLAST
Trace Elements in the Environment of Some Goiter Regions of the Tashkent Oblast, (In Russian),
W77-02388 1005 5G

TASMANIA
Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Aspects of the Chemical Variability of some Tasmanian Inland Waters (Australia),
W77-03283 1007 2K

Chemistry of Salt Lakes and Other Waters in the Sub-Humid Regions of Tasmania (Australia),
W77-03284 1007 2H

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

TASTE
Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

A Preliminary Study of the Taste and Odor Problems in Grand Lake, Ohio and the Wabash Rivers, Indiana,
W77-03384 1007 5C

Petroleum Components and Objectionable Malodorous Substances in Fish Flesh Polluted by Boiler Fuel Oil,
W77-04053 1008 5C

Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Report on Results of Rainy River Fish Tainting Questionnaire.
W77-06367 1013 5G

Identity, Origin and Development of Off-Flavors in Great Lakes Anadromous Fish,
W77-06931 1014 5A

Tastes and Odors in Water Supplies-A Review,
W77-12794 1024 5F

TAUTOGA ONITIS
The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

TAX-DEPLETION
Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

TAX RATES
Water Quality Control and Tax Incentives: A Panacea for Water Pollution,
W77-06552 1013 5G

TAXA
Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

TAXES
A Regional Market for Rights to User Fertilizer as a Means of Achieving Water Quality Standards,
W77-00173 1001 5G

A Systematic Procedure for Taxing Agricultural Pollution Sources,
W77-00314 1001 5G

Levees, Drains and Ditches,
W77-03727 1008 6E

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

Water Quality Control and Tax Incentives: A Panacea for Water Pollution,
W77-06552 1013 5G

TCDD
Fate of 2,4,5-T Contaminant, 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Aquatic Environments,
W77-05602 1012 5B

TCHEFUNCTE RIVER (LA)
The Influence of Brackish-Water Intrusion on Macroinvertebrate Associations of the Lower Tchefuncte River, Louisiana,
W77-08292 1017 5B

TDBPP
Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

TDE
Organochlorine Residues in New Zealand Birds and Mammals,
W77-05609 1012 5C

Residues of Organochlorine Insecticides in Some Fishes and Birds in the Gezira of Sudan,
W77-05648 1012 5C

TEA
Irrigation System Operating Policies for Mature Tea in Malawi,
W77-05920 1012 3F

TECHNICAL SOCIETIES
In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

Conclusions and Recommendations for the United Nations Water Conference (Preliminary Outline),
W77-089[illegible] 1018 6E

TECHNOECOLOGY
Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

TECHNOLOGICAL CHANGE
The Relevance of Technological Change in Long Term Water Resource Planning,
W77-00113 1001 6B

TECHNOLOGY
Water Law and New Technologies.
W77-01184 1003 6E

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Primary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing, Point Source Category,
W77-02421 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Geothermal Technoecosystems and Water Cycles in Arid Lands,
W77-03966 1008 6G

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Economics and Technology for Controlling Dairy Feedlot Runoff,
W77-04611 1010 5G

Proceedings of Seminars on Water Pollution Abatement Technology in the Pulp and Paper Industry.
W77-05708 1012 5D

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W77-06534 1013 6E

A Pneumatic Grab for Obtaining Large, Undisturbed Mud Samples: Its Construction and Some Applications for Measuring the Growth of Larvae and Emergence of Adult Chironomidae,
W77-06613 1014 5A

A Technique to Index Soil Pores and Aggregates Larger than 20 Micrometers,
W77-08059 1016 2G

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Status of Desalination Research and Technology in the Middle East,
W77-11109 1022 3A

The Application of Technology in Developing Countries.
W77-11637 1023 6B

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

Water Quality Research.
W77-12900 1024 5G

TECHNOLOGY ASSESSMENT
Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

TECHNOLOGY TRANSFER
Effectiveness of Information Transfer Through Water Resources Researcher/User Group Interaction,
W77-00151 1001 10D

Improving Information Dissemination and Technology Transfer in the Water Resources Field,
W77-05102 1011 6B

Proceedings Technology Transfer Seminar on Waste Handling, Disposal and Recovery in the Metal Finishing Industry, November 12-13, 1975, Toronto, Ontario.
W77-06950 1014 5D

Proceedings, Technology Transfer Seminar on High Quality Effluents,
W77-07330 1015 5D

History, Status and Future of Distillation Processes,
W77-12631 1024 3A

State-of-the-Art of Membrane and Ion Exchange Desalting Processes,
W77-12632 1024 3A

TEES ESTUARY (ENGLAND)
The Biological Importance of a Polluted Estuary,
W77-04860 1010 5C

TEFLON
Retention and Flow Characteristics of Polymer Solutions in Porous Media,
W77-08850 1018 2G

TEGLER LAKE (GERMANY)
Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

TELECONTROL
A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

TELECONTROL SYSTEMS
The Development of Modelling and Simulation Techniques Applied to a Computer-Based Telecontrol Water Supply System,
W77-10826 1022 4A

TELECOSTS
Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: I Accumulation of Mercury in the Organs, (In French),
W77-09320 1019 5C

Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: II. Effect on the Regulation of Osmolarity, (In French),
W77-09321 1019 5C

TELEMETRY
Operational Applications of Satellite Snowcover Observations and Landsat Data-Collection System Operations in Central Arizona,
W77-02017 1004 2C

Operational Applications of Satellite Snowcover Observations and Landsat Data Collection Systems Operations in Central Arizona,
W77-03971 1008 2C

Downhole Measurements Through Modified Drill Pipe,
W77-07304 1015 8G

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

Analysis of IFYGL Rawinsonde Baseline Measurements,
W77-07790 1016 2B

The Application of ERTS-1 Digital Data to Water Transport Phenomena in the Point Pelee-Rondeau Area,
W77-07981 1016 2J

Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

The Delaware River Basin Landsat-Data Collection System Experiment,
W77-10877 1022 7B

Drilling Research to Pay Off by 2000,
W77-12668 1024 8C

TELEOSTS
Cellular Effects of Mercury on Fish Kidney Tubules,
W77-02696 1006 5C

The Role of Larval Stages in Systematic Investigations of Marine Teleosts: The Myctophidae, A Case Study,
W77-04538 1009 2I

Temperature as a Growth Accelerator in the Spot (Teleost: Sciaenidae),
W77-05556 1011 5C

Quantitative Nucleic Acid Histochemistry of the Yolk Sac Syncytium of Oviparous Teleosts: Implications for Hypotheses of Yolk Utilization,
W77-05850 1012 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Experimental Study of Acute Toxicity of Salts of Cobalt, Antimony, Strontium and Silver Crustaceans and Their Larvae and in Some Teleosts, (In French),
W77-07728 1016 5C

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

TELETYPE
Development of the Spring Creek Data Acquisition System,
W77-09258 1019 7A

TELEVISION
Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

TEMEPHOS
Outbreak of Chironomid Midge in a Polluted River and the Chemical Control of the Larvae, (In Japanese),
W77-07585 1015 5G

TEMERNIK RIVER (USSR)
Effect of River Pollution on Aquatic Beetles, (In Russian),
W77-02261 1005 5A

TEMPERATE
Elements of Limnological Specificity of Large Lakes in the Temperate Zone, (In Russian),
W77-02260 1005 2H

TEMPERATURE
Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

Salt Fingers Observed in the Mediterranean Outflow Region (34 N, 11 W) Using a Towed Sensor,
W77-00363 1001 2L

Ecological and Physiological Patterns of Polyartemia Forcipata (Anostraca) from Tundra Water Bodies of the East Murman, (In Russian),
W77-00525 1001 2I

Finestructure and Microstructure Observations During the Passage of a Mild Storm,
W77-00653 1002 2L

The Effects of Temperature and Hydrostatic Pressure on Enzymes of an Abyssal Fish, Antimora Rostrata: Liver NADP-Linked Isocitrate Dehydrogenase,
W77-00875 1002 5C

Thermal Stress for Hexadecane Decomposition in Seawater of a Natural Environment,
W77-00876 1002 5C

The Temperature of Two Welsh Lakes and Its Effect on the Distribution of Two Freshwater Insects,
W77-00878 1002 5C

Seasonal Temperature Effects and Predicting Development Rates of Marine Copepod Eggs,
W77-00880 1002 5C

Number and Biomass of Oligochaeta of the Species Potamothrix Hammoniensis Mich. In Lakes Dusia, Galstas, Obelija and Slavantas in 1968-1971, (In Russian),
W77-01033 1002 5C

Temperature Variation in Fiddler Crab Microhabitats,
W77-01058 1003 5C

Temperature and the Vertical Distribution of Two Tidepool Fishes (Oligocottus Maculosus, O. Snyderi),
W77-01060 1003 5C

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Method for Finding Temperature Environments for Fish,
W77-01212 1003 7B

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Temperature Recording in Shallow Marine Environments,
W77-01446 1003 2L

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

The Effect of the Preliminary Adaptation Temperature on the Distribution of Juvenile Cod (Gadus Morhva) and Pollock (Pollachius Virens) within a Temperature Gradient,
W77-01509 1003 5C

Method for Producing Mechanical Energy from Geothermal Brine,
W77-01710 1004 3C

Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

Effect of Environmental Conditions on the Degradation of DDT in Model Marine Ecosystems,
W77-02213 1005 5C

Analysis and Control of Thermal Pollution (178) Training Manual,
W77-02632 1006 5B

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Plankton Investigations Near Flevo Power Station,
W77-02726 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

1976 Environmental Conditions Relative to Shrimp Production in Coastal Louisiana,
W77-02876 1006 5C

Embryonic Development, Early Growth, and Meristic Variation in Rainbow Trout (Salmo Gairdneri) Exposed to Combinations of Light Intensity and Temperature,
W77-02881 1006 5C

Recent Progress on the Control of Ovarian Development and Induced Spawning of the Grey Mullet (Mugil Cephalus L.),
W77-02882 1006 5C

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Response of Two Arctic Amphipods, Gammarus Zaddachi and Boeckosimus (Onisimus) Affinis to Variations in Temperature and Salinity,
W77-03019 1006 5C

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Heteromorphic Development of Aedine Mosquitoes Reared at Abnormal Temperatures,
W77-03047 1006 5C

The Effect of Temperature-Salinity Combinations on The Functional Well-Being of Adult Lytechinus Variegatus (Lamarck) (Echinodermata, Echinoidea),
W77-03054 1006 5C

Effect of Temperature on Denitrification Rate in Soils,
W77-03070 1006 2G

The Bottom Boundary Layer of the Deep Ocean,
W77-03089 1007 2L

Ecology of Aquatic Saprophytic Phycomycetes. II, (In Russian),
W77-03201 1007 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

Effect of Water Chlorination Upon Levels of Some Polynuclear Aromatic Hydrocarbons in Water,
W77-03459 1007 5F

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

Thermal Effects on Aquatic Organisms, Annotated Bibliography of the 1975 Literature.
W77-03640 1008 5C

The Influence of Temperature on the Bioenergetics of the Carnivorous Stonefly Nymph, Acroneuria California Banks (Plecoptera: Perlidae),
W77-03641 1008 5C

Dynamics of Microbially Produced Fulvic Material in Aquatic Environments Relative to Different Conditions of Temperature and pH,
W77-03664 1008 5C

Spectrum of Small-Scale Oceanic Temperature Gradients,
W77-03979 1008 2L

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Mortality, Saltwater Adaptation and Reproduction of Fish During Gas Supersaturation,
W77-04439 1009 5C

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

Influence of Temperature and Salinity on Embryonic Development, Larval Growth and Number of Vertebrae of the Garfish, Belone Belone,
W77-04545 1009 5C

Temperature Tolerance of Early Development Stages of Dover Sole, Solea Solea (L.),
W77-04549 1009 5C

Effects of Constant and Rising Temperatures on Survival and Development Rates of Embryonic and Larval Yellow Perch, Perca Flavescens (Mitchill),
W77-04550 1009 5C

Survival of Australian Anchovy (Engraulis Australis) Eggs and Larvae in a Heat Trap,
W77-04555 1009 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

Phase Relationships in Sea Ice as a Function of Temperature,
W77-05428 1011 2C

Effect of Temperature on Growth, Mortality, Reproduction, and Production of Adult Snails,
W77-05550 1011 5C

Effects of Constant and Cyclic Temperature Regimes on the Pelagic Larval Development of a Brachyuran Crab,
W77-05551 1011 5C

Some Effects of Temperature, Chlorine, and Copper on the Survival and Growth of the Coon Stripe Shrimp,
W77-05552 1011 5C

The Effect of Temperature, Salinity, and Food Availability on the Growth and Food-Conversion Efficiency of Postlarval Pinfish,
W77-05555 1011 5C

Temperature as a Growth Accelerator in the Spot (Teleost: Sciaenidae),
W77-05556 1011 5C

Growth Rates of Subadult Largemouth Bass at 24 to 35.5C,
W77-05557 1011 5C

Thermal Tolerance of Adult Asiatic Clam,
W77-05559 1011 5C

The Effect of Acclimation on the Temperature Tolerance of Young Muskellunge Fry,
W77-05560 1011 5C

Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

Behavioral Thermal Regulation by Rainbow Trout in a Temperature Gradient,
W77-05568 1011 5C

Behavioral Thermoregulation by Bluegill Exposed to Various Rates of Temperature Change,
W77-05569 1011 5C

Thermal Preferenda and Behavioral Thermoregulation in Three Centrarchid Fishes,
W77-05571 1011 5C

Thermal Ecology of Phytoplankton in a Desert Reservoir,
W77-05573 1011 5C

Effects of Thermal Constancy and Seasonal Temperature Displacement on Community Structure of Stream Macroinvertebrates,
W77-05586 1011 5C

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

Physiological Effects of Certain Environmental Factors on Organic Metabolism in Fish, (In French),
W77-05719 1012 5C

Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

Feeding, Starvation and Weight Changes of Early Fish Larvae,
W77-05849 1012 5C

Critical Swimming Speeds of Coho Salmon (Oncorhynchus Kisutch) Fry to Smolt Stages in Relation to Salinity and Temperature,
W77-05880 1012 5C

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

Effect of Temperature on Channel Resistance,
W77-06517 1013 8B

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Exchange Through a Barrier Island Inlet: Additional Evidence of Upwelling Off the Northeast Coast of North Carolina,
W77-06654 1014 2L

The Measurement of Temperature Tolerance: Verification of an Index,
W77-06764 1014 5C

Seasonal changes in the Respiration of Pumpkinseed, Lepomis Gibbosus, Correlated with Temperature, Day Length, and Stage of Reproductive Development,
W77-06768 1014 5C

The Algal Flora in the Thermal Baths of Montegrotto Terme (Padua). Its Distribution Over One-Year Period,
W77-06770 1014 5C

Effect of Salinity on Spore Germination of Terrestrial and Marine Fungi,
W77-06772 1014 5C

Effects of Various Ecological Factors on Radiostrontium Uptake in Two Euryhaline Teleosts: Mugil Auratus Risso and Pleuronectes Platessal, (Influence de Divers Facteurs Ecologiques Sur L'Accumulation du Radiostrontium Chez Deux Teleosteens Euryhalins: Mugil Auratus Risso et Pleuronectes Platessa L.),
W77-06777 1014 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

Plant Data Analysis of Temperature Significance in the Activated Sludge Process,
W77-07046 1014 5D

Hydrographic Properties, MESA New York Bight Atlas Monograph 1,
W77-07328 1015 2L

Interaction of Temperature and Salinity on Oxygen Consumption of the Estuarine Crab Panopeus Herbstii,
W77-07375 1015 5C

The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W77-07380 1015 5C

Attainment of the Final Thermal Preferendum in Brown Bullheads Acclimated to Different Temperatures,
W77-07381 1015 5C

The Influence of Temperature and Time of Year on the Oxygen Uptake of the Sea Mussel Mytilus Edulis,
W77-07383 1015 5C

The Effect of Salinity and Cyclic Temperature on Larval Development of the Mud-Crab Rhithropanopeus Harrisii (Brachyura: Xanthidae) Reared in the Laboratory,
W77-07384 1015 5C

Influence of Light and Temperature on the Photosynthetic Rate of Marine Benthic Diatoms,
W77-07385 1015 5C

Life History Patterns in the Coastal Shiner, Notropis Petersoni, Fowler,
W77-07386 1015 5C

Studies on the Effect of Temperature on the Egg Laying of Three Species of Calanoid Copepods in the Laboratory (Acartia Tonsa, Temora Longicornis, and Pseudocalanus Elongatus),
W77-07391 1015 5C

Comparative Ecophysiology of Gammarids (Crustacea: Amphipoda) From Marine, Brackish and Fresh-Water Habitats, Exposed to the Influence of Salinity-Temperature Combinations. I. Effect on Survival,
W77-07397 1015 5C

Hematology of Juvenile Striped Bass, Morone Saxatilis (Walbaum), Acclimated to Different Environmental Conditions,
W77-07400 1015 5C

Respiratory Responses of Gillichthys Mirabilis to changes in Temperature, Dissolved Oxygen and Salinity,
W77-07401 1015 5C

Seasonal Changes in Hematology of Rainbow Trout, Salmo Gairdneri,
W77-07403 1015 5C

Culture Studies on Eucheuma Nudum J. Agardh, A Carrageenan Producing Red Alga from Florida,
W77-07404 1015 5C

The Effect of Temperature on Size and Structure-II. The Body Musculature of Cyclops Agilis (Koch, Sars),
W77-07433 1015 5C

Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

Factors Affecting the Denitrification Rate in Two Water-Sediment Systems,
W77-08517 1017 5B

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

Compilation of Temperature Preference Data,
W77-08767 1018 7C

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Chemical and Isotopic Investigations of Groundwater in Potential Geothermal Areas in Hawaii,
W77-09082 1018 2K

Secondary Autumn Shoot Formation in Spring Wheat: I. The Role of Drought Damage and Developmental Stages, (In Russian),
W77-09545 1019 2I

Soil Temperatures and Heat Loss for a Hot Pipe Network Buried in Irrigated Soil,
W77-09654 1020 5D

Physiological Studies of Subtidal Red Algae,
W77-10757 1021 5C

Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

Evaluation of Resistance and Mass Transport Evapotranspiration Models Requiring Canopy Temperature Data,
W77-11396 1022 2D

Temperature Effects on Emitter Discharge Rates,
W77-11406 1022 3F

Crop Temperature Reveals Stress,
W77-11434 1022 2L

Survival and Reproduction of Ostracods as Affected by Pesticides and Temperature,
W77-11567 1023 5C

Heat and Vapor Movement During Infiltration into Dry Soils,
W77-11818 1023 2G

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Studies on the Cultivation of Marine Cladocera - I. Factors Affecting the Hatch of Resting Eggs, (In Japanese),
W77-12021 1023 5C

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Significance of Temperature in the Activated Sludge Process,
W77-12142 1023 5D

Biokinetics of Low Temperature Waste Assimilation,
W77-12143 1023 5D

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

TEMPERATURE CHANGE

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

TEMPERATURE COEFFICIENT (DENITRIFICATION)

Effect of Temperature on Denitrification Rate in Soils,
W77-03070 1006 2G

TEMPERATURE CONTROL

A Mathematical Model for Predicting River Temperatures-Application to the Green River Below Flaming Gorge Dam,
W77-01684 1004 4A

A Thermal Controller for the Short COD Determination,
W77-09415 1019 5A

Crop Temperature Modification and Yield Potential in a Dwarf Spring Wheat,
W77-09939 1020 3F

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

Electronic Controller for Producing Cyclic Temperatures in Aquatic Studies,
W77-12208 1023 7B

TEMPERATURE DISTRIBUTION

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

TEMPERATURE DISTRIBUTIONS

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

TEMPERATURE GRADIENT

Scanning Thermal Plumes,
W77-02682 1006 5A

TEMPERATURE LIMITATION

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Area, Grande Ronde Drainage Basin,
W77-06603 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Powder Drainage Basin,
W77-06604 1014 2G

Oregon's Long Range Requirements for Water. General Soil Map Report with Irrigable Areas, Malheur River Drainage Basin,
W77-06605 1014 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

TEMPERATURE MEASUREMENT

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

TEMPERATURE PREFERENCE

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

TEMPERATURE PREFERENCE DATA

Compilation of Temperature Preference Data,
W77-08767 1018 7C

TEMPERATURE PREFERENCE STUDIES

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

TEMPERATURE PROFILES

A Single Field of View Method for Retrieving Tropospheric Temperature Profiles from Cloud-Contaminated Radiance Data,
W77-06887 1014 2B

TEMPERATURE SAFETY DEVICE

Temperature Safety Device for Aquatic Laboratory Systems,
W77-12207 1023 7B

TEMPERATURE-SALINITY CURVES

Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

TEMPERATURE-SALINITY DYNAMIC HEIGHT

Temperature-Salinity Curves in the Pacific and Their Application to Dynamic Height Computation,
W77-00138 1001 2L

TEMPERATURE-SALINITY RELATIONSHIPS

Distribution of Salinity and Temperature in the Hudson Estuary,
W77-02141 1005 2L

TEMPERATURE UNITS

Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

TEMPERATURE VARIATIONS

Variations in Coastal Temperatures on the Southern and Central California Coast,
W77-01917 1004 2L

TEMPORAL DISTRIBUTION

Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

Seasonal Changes of Antarctic Plankton in the Molodezhaya and Mirny Region,
W77-00397 1001 5C

Species Composition and Distribution of Ecological Complexes of Zooplankton in the Enisei Gulf,
W77-00399 1001 5C

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

Seasonal Abundance and Horizontal Distribution of Planktonic Crusteacea of Georgian Bay,
W77-01799 1004 5C

Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments,
W77-02808 1006 5C

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

Temporal and Spatial Patterns of Dinoflagellate Blooms in Lake Kinneret, Israel (1969-1974),
W77-07973 1016 5C

Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Analysis of the Temporal Behaviour of the Level of Lake Malawi,
W77-11565 1023 2H

TEMPORALLY DISTRIBUTED RAINFALL

Temporally and Areally Distributed Rainfall,
W77-09696 1020 2B

TENAX

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

TENCH
The Effect of Sub-Lethal Lead Concentrations on the Chemoreceptors of Two Fresh Water Fish Species, (In German),
W77-02383 1005 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

TENDIPEDIDAE
Growth and Production of Mass Species of Chironomids (Diptera, Tendipedidae) in the Volga Pre-Delta, (In Russian),
W77-01025 1002 5C

TENDUREK VOLCANO REGION (TURKEY)
Hydrogeology of the Spring Waters with High F Content from the Surroundings of Tendurek Volcano, (In Turkish),
W77-06379 1013 5B

TENNESSEE
Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

Stratigraphy of the Paleocene and Lower Part of the Eocene in Western Tennessee,
W77-02315 1005 2F

Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

Processes of Dissolved Oxygen Depletion in Tims. Ford Reservoir,
W77-04327 1009 5C

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
W77-05931 1012 5B

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

United States V Cutter Laborstories, Inc (Civil Liability of a Permittee for Whom no Industrial Effluent Limitations or Guidelines Exist).
W77-07274 1015 6E

Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
W77-08174 1017 4C

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Effects of Spatial Variability of Soil Hydraulic Properties in Water Budget Modeling,
W77-08825 1018 2G

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. II - Holston - Final Report,
W77-09762 1020 5C

Application of the U.S. Geological Survey Rainfall Runoff Simulation Model to Improve Flood-Frequency Estimates on Small Tennessee Streams,
W77-10004 1020 2A

The Potential for Growth and Development in Tennessee,
W77-10916 1022 6D

Flood Plain Information: Bartons and Sinking Creeks, Lebanon, Tennessee.
W77-10920 1022 4A

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

Coal Mine Water Pollution: An Acid Problem with Murky Solutions,
W77-11163 1022 5G

Hydrologic Unit Map--1974, State of Tennessee.
W77-11884 1023 7C

Flood Plain Information: Collins River, Barren Fork, Hickory and Charles Creeks, McMinnville, Tennessee.
W77-12598 1024 4A

TENNESSEE RIVER
The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Prelimnary Assessment of Larval Fish Entrainment, Colbert Steam Plant, Tennessee River,
W77-05596 1011 5C

A Factor Analysis of Socioeconomic Change in the Tennessee River Watershed,
W77-11767 1023 6B

TENNESSEE-TOMBIGBEE WATERWAY
Divide Cut Drainage Structures Tennessee-Tombigbee Waterway Mississippi and Alabama; Hydraulic Model Investigation,
W77-10046 1020 8B

Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

TENNESSEE-TOMBIGBEE WATERWAY (ALA-MISS-TENN)
Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

TENNESSEE VALLEY AUTHORITY
The Tennessee Valley Authority and Multiple Objective Planning,
W77-01157 1003 6B

Hill V Tennessee Valley Authority (Application of Endangered Species Act to Federal Project).
W77-09581 1019 6E

Butoxyethanol Ester of 2,4-D for Control of Eurasian Water Milfoil,
W77-10057 1020 4A

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

A Mathematical Model for Transient Open Channel Flow: A Water Resource Planning and Management Tool,
W77-10290 1021 2E

TENSAS BASIN LEVEE DISTRICT (LA)
Taylor V Board of Levee Commissioners of the Tensas Basin Levee District (A Taking for Levee Purposes).
W77-03707 1008 6E

TENSILE STRENGTH
Strain Rate Effect on the Strength of Frozen Silt,
W77-02804 1006 8D

TENSIOMETERS
Measuring Hydrologic Properties of Soil with a Double-Ring Infiltrometer and Multiple-Depth Tensiometers,
W77-01325 1003 2G

A Recording Soil Moisture Tensiometer,
W77-01429 1003 2G

Automatic Monitoring of Soil Moisture Conditions in a Hillslope Spur and Hollow,
W77-07146 1015 2G

Fritted Glass Bead Materials as Tensiometers and Tension Plates,
W77-07760 1016 2G

On the Use of Tensiometers in Snow Hydrology,
W77-09123 1019 2C

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

The Resistance of Intact Maize Roots to Water Flow,
W77-10271 1021 2G

Irrigation Control Using Tensiometers and Salinity Sensors,
W77-11404 1022 3F

A Modified Mercury Tensiometer,
W77-11615 1023 2G

TEPP
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

TERATOGENESIS
Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

TERATOLOGY
Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

TERBIUM
Studies on Rare Earth Elements in Seawater and Uptake by Marine Organisms,
W77-10390 1021 5C

TERMINAL VELOCITY (CLOUDS AND RAINDROPS)
Acceleration to Terminal Velocity of Cloud and Raindrops,
W77-09719 1020 2B

TERMINOLOGY
Glossary of Water Resource Terms,
W77-07613 1016 10C

TERMITES
Seasonal Activity and Environmental Control of Foraging of the Subterranean Termite, Heterotermes Aureus (Snyder), in a Desert Grassland,
W77-00515 1001 2I

TERNS
Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

TERRACES (GEOLOGIC)
Terraces and Shorelines of Florida,
W77-04229 1009 7C

TERRACING
Soil and Water Loss from Impoundment Terrace Systems,
W77-00796 1002 4D

Restoration and Protection of Degraded Slopes,
W77-05948 1012 4D

Land Forming Systems to Improve Water Use Efficiency,
W77-06761 1014 3F

Simulation of Impoundment Terrace Hydraulics,
W77-07767 1016 8B

TERRAIN ANALYSIS
Mapping and Measuring Land-Cover Characteristics of New River Basin, Tennessee, Using Landsat Digital Tapes,
W77-02978 1006 4A

Remote Sensing and Developing Countries: Potential and Problems in the Transfer of Technology,
W77-11639 1023 6B

TERRESTRIAL HABITAT
USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

TERRESTRIAL RADIATION
Lake Erie Terrestrial Radiation,
W77-03858 1008 2H

TERRIGENOUS-SKELETAL SEDIMENTS
Grain-Size Parameters of Insoluble Residues in Mixxed Terrigenous-Skeletal Carbonate Sediments and Sedimentary Rocks: Some New Zealand Examples,
W77-08848 1018 2L

TERRITORIAL SEA
Post Caracas: Striking a Bargain for Settlement at Geneva,
W77-06054 1012 6E

TERRITORIAL SEAS
Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

TERRITORIAL SEAS (JURISDICTION)
LOS III: Prospects and Problems,
W77-04353 1009 6E

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Constitutionality of State Fishing Zones in the High Seas: The Oregon Fisheries Conservation Zone Act,
W77-06551 1013 6E

Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

Conference on Law of Sea Will Seek to Reach Accord on Host of Complex Issues.
W77-10449 1021 6E

Jurisdiction Over the Seabed: Persistent Federal-State Conflict,
W77-10460 1021 6E

TERRITORIAL WATERS
Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

TERTIARY TREATMENT
The Effects of Various Tertiary Treatment Nutrient Removal Schemes on Periphyton Communities in Model Laboratory Streams,
W77-00005 1001 5C

AWT Plant Begins Operations.
W77-00055 1001 5D

The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures: II. Tertiary Treatment Potential of Algae, (In Dutch),
W77-00110 1001 5D

The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures. III, (In Dutch),
W77-00111 1001 5D

Tertiary Treatment and Reuse of Animal Wastes,
W77-00158 1001 5D

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Advanced Treatment and Planned Development Control County's Pollution,
W77-00593 1002 5D

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Reverse Osmosis as an Advanced Treatment Process,
W77-00607 1002 5D

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

Coleshill Advanced Wastewater Treatment Project,
W77-02344 1005 5D

Advanced Waste Treatment Plant has Physical-Chemical Option,
W77-02345 1005 5D

Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

Polymers Cut Cost of Phosphorus Removal,
W77-02374 1005 5D

The Role of Solar Ultraviolet Radiation in 'Natural' Water Purification,
W77-02552 1005 5D

Advanced Trickling Filter for Wastewater Treatment,
W77-03365 1007 5D

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Tertiary Treatment of Sewage Effluents,
W77-03453 1007 5D

The Use of in Situ Algale Assaysto Evaluate the Effects of Sewage Effluents on the Production of Shagawa Lake Phytoplankton,
W77-04161 1009 5C

Tertiary Filter for Waste Treatment,
W77-04677 1010 5D

AWT at Woodlands, Texas,
W77-04690 1010 5D

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

Biochemical Reactor Analysis,
W77-05334 1011 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

Georgia Plant is a Peach,
W77-06136 1013 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Fail-Safe Waste Treatment System,
W77-07027 1014 5D

Response to Eutrophic Shagawa Lake, Minnesota, U.S.A., to Point-Source, Phosphorus Reduction,
W77-07519 1015 5C

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

Evaluation of Alternate Solids Handling Methods for Advanced Waste Treatment,
W77-07902 1016 5D

Hygenic Assessment of Tertiary Adsorption Treatment of Domestic Sewage and Industrial Effluents (Gigienicheskaya Otsenka Tretichnoyi Adsorbtsionnoyi Ochistki Bytovykh I Promyshlennikh Stochnykh Vod),
W77-07906 1016 5D

AWT Plant Meets Tough Demands,
W77-07918 1016 5D

The Solubility of Particulate Phosphorus in the Effluent From Alum Treatment of Wastewater and Phosphorus Solutions,
W77-08500 1017 5D

Michigan Treatment Plant Achieves Zero Discharge, Irrigates Cropland,
W77-08565 1017 5D

Advanced Waste Treatment Design Protects Lake Alton,
W77-08631 1018 5G

Powdered Activated Carbon Addition to Biological Reactors,
W77-09599 1019 5D

Cost-Effective Comparison of Land Application and Advanced Waste Water Treatment,
W77-10535 1021 5D

Environmental Impacts of Advanced Wastewater Treatment at Ely, Minnesota,
W77-10536 1021 5D

Advanced Treatment.
W77-11495 1022 5D

Potential Value of Treatment of Urban Stormwater,
W77-11675 1023 5G

Two Contracts Underway to Complete South Bay Area Water Treatment Plant.
W77-11705 1023 5D

New Development.
W77-11718 1023 5D

Salvaging an Old Sewage Plant Cuts Tertiary Treatment Costs.
W77-11751 1023 5D

Microbiology of Waste Treatment, (Literature Review),
W77-11753 1023 5F

Remove Algae and High Costs Together,
W77-11755 1023 5D

Changes in Aquatic Macrophytes Accompanying Phosphorus Reduction in a Eutrophic Lake in New York State: An Assessment Based on Remotely Sensed and Other Data,
W77-11940 1023 5A

Growth of Six Species of Bivalve Molluscs in a Waste Recycling-Aquaculture System,
W77-12070 1023 5C

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

Cottonvalley--The Attractive Sewage Works.
W77-12446 1024 5D

Conventional Tertiary Treatment,
W77-12474 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

Attenuation of Waste Water Elutriated Through Glacial Outwash,
W77-12814 1024 5D

TERTIARYTREATMENT

Health Considerations in Use of Tertiary Effluents,
W77-08513 1017 5F

TEST HOLE WELLS

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

TEST WELLS

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Ground-Water Resources of the White River Junction Area, Vermont,
W77-04221 1009 4B

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

Geologic Data from Test Drilling in Palm Beach County, Florida Since 1970,
W77-09073 1018 7C

Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

TESTACEA

Ecology of Encrusting Microfauna of Higher Aquatic Plants of the Kiev Reservoir, (In Russian),
W77-12365 1024 2H

TESTACEANS

The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

TESTING

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Structure-Activity Relationships in Fish Toxicology,
W77-01313 1003 5C

Final Report, MSF Module Studies, OSW SAN Diego Test Facility.
W77-01551 1004 3A

Aquatic Environmental Quality: Problems and Proposals,
W77-05636 1012 6G

Research Related to Biological Evaluation of Complex Wastes,
W77-06476 1013 5A

Impurity Concentrations in Sea Ice,
W77-08237 1017 2C

Fine Screening of Raw Sewage,
W77-08629 1018 8G

Water Turbine Pump Failure,
W77-08656 1018 8G

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

At Sea Testing of a High Sea Oil Recovery System,
W77-09237 1019 5G

Strain Meters and Stress Meters for Embedment in Models of Mass Concrete Structures; Report 2, Evaluation of Microdot Embedment Strain Gage,
W77-10785 1021 8G

Automated Measurement of River Productivity for Eutrophication Prediction,
W77-10953 1022 5A

Soil Salinity Testing in the Field.
W77-12720 1024 7B

TESTING PROCEDURES

Aromatic Hydrocarbons in Aquatic Fauna,
W77-01247 1003 5A

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Optimum Allocation Strategies for Sampling Benthos in the New York Bight,
W77-01264 1003 5A

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

Evaluation of the Ring Oven Technique for Water Monitoring, Appendices,
W77-02149 1005 5A

Test New Sewers with Low-Pressure Air,
W77-02329 1005 8G

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

BOD as Pollutional Parameter,
W77-04715 1010 5A

Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents,
W77-05262 1011 2K

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

The Evaluation of Toxic Effects of Chemicals in Fresh Water by Using Frog Embryos and Larvae,
W77-07132 1015 5C

Guidelines Establishing Test Procedures for the Analysis of Pollutants,
W77-07252 1015 5A

Electronic Isolation Simulator for Hydraulic Turbine Governor Alinement,
W77-07804 1016 8C

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

The Evaluation of the Test Procedure for Hazardous Binary Combinations of Materials in Marine Transportation,
W77-09236 1019 5G

Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

TETEREV RIVER (USSR)

Characteristics of Algoflora of Different Sections of the Teterev River, (In Ukranian),
W77-05226 1011 5C

TETHERED FLOATS

Design Limits on Critical Float Emergence in a Tethered Float Breakwater,
W77-00899 1002 8C

Performance Analysis of a Tethered Float Breakwater,
W77-09328 1019 8B

TETON DAM FAILURE (IDAHO)

Report to U.S. Department of the Interior and State of Idaho, on Failure of Teton Dam.
W77-04632 1010 8D

TETON DAM (IDAHO)

Teton Dam Flood of June 1976, Moreland Quadrangle, Idaho,
W77-01395 1003 7C

Teton Dam Flood of June 1976, Firth Quadrangle, Idaho,
W77-01396 1003 7C

Teton Dam Flood of June 1976, Rose Quadrangle, Idaho,
W77-01397 1003 7C

Teton Dam Flood of June 1976, Menan Buttes Quadrangle, Idaho,
W77-01398 1003 7C

Teton Dam Flood of June 1976, Newdale Quadrangle, Idaho,
W77-01399 1003 7C

Teton Dam Flood of June 1976, Parker Quadrangle, Idaho,
W77-01400 1003 7C

Teton Dam Flood of June 1976, Blackfoot Quadrangle, Idaho,
W77-01401 1003 7C

Teton Dam Flood of June 1976, Pingree Quadrangle, Idaho,
W77-01402 1003 7C

Teton Dam Flood of June 1976, Moody Quadrangle, Idaho,
W77-01403 1003 7C

Teton Dam Flood of June 1976, Rexburg Quadrangle, Idaho,
W77-01404 1003 7C

Teton Dam Flood of June 1976, Rigby Quadrangle, Idaho,
W77-01405 1003 7C

Teton Dam Flood of June 1976, Lewisville Quadrangle, Idaho,
W77-01406 1003 7C

Teton Dam Flood of June 1976, Woodville Quadrangle, Idaho,
W77-01407 1003 7C

Teton Dam Flood of June 1976, St. Anthony Quadrangle, Idaho,
W77-01408 1003 7C

Teton Dam Flood of June 1976, Deer Parks Quadrangle, Idaho,
W77-01409 1003 7C

Teton Dam Flood of June 1976, Idaho Falls South Quadrangle, Idaho,
W77-01410 1003 7C

Teton Dam Flood of June 1976, Idaho Falls North Quadrangle, Idaho,
W77-01411 1003 7C

Teton Dam Failure.
W77-12324 1024 8D

TETRACHLOROBENZENE

Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

TETRACHLOROBIPHENYL

Isolation and Identification of a Polar Metabolite of Tetrachlorobiphenyl from Bile of Rainbow Trout Exposed to 14C-Tetrachlorobiphenyl,
W77-05916 1012 5C

TETRAETHYL LEAD

An Ecosystem Analysis of Environmental Contamination by Lead,
W77-02211 1005 5A

TETRAETHYL LEAD CHLORIDE

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

TETRAMETHYL LEAD

Effect of Tetramethyl Lead on Freshwater Green Algae,
W77-11522 1023 5C

TETRASELMIS

Survival of Marine Phytoplankton in High Concentrations of Heavy Metals, and Uptake of Copper,
W77-10233 1021 5C

TEXAS

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

Phytoplankton Succession in a Maturing Northwest Texas Reservoir (Lake Meredith),
W77-00720 1002 5C

Norman and Schaen, Inc V Dallas (Without Causing Increase in Water Flow Across Property, City Not Responsible for Faulty Drainage System).
W77-00995 1002 6E

Gardner V Hamilton (Right to Exercise Eminent Domain for Flood Control).
W77-00996 1002 6E

Temperature Variation in Fiddler Crab Microhabitats,
W77-01058 1003 5C

Chemical and Physical Characteristics of Water in Estuaries of Texas, October 1971-September 1973,
W77-01416 1003 5B

Determining the Source of Nitrate in Ground Water by Nitrogen Isotope Studies,
W77-01636 1004 5A

The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

Impact of Water Resource Development on Coastal Erosion, Brazos River, Texas,
W77-01681 1004 2L

A Note on Standing Crops of Spartina Alterniflora in Texas and Florida,
W77-01792 1004 5C

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

Applied Climatology and Food Production: The Case of Grapefruit Quality in the Rio Grande Valley of Texas,
W77-01905 1004 3F

Environmental Impact Assessment, Water Quality Analysis, Guadalupe-San Antonio River Basin,
W77-01962 1004 5G

Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

Predicting Sediment Yield Frequency for Rural Basins to Determine Man's Effect on Long-Term Sedimentation,
W77-02786 1006 4D

Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

Clear Lake Apartments, Inc V Clear Lake Utilities (Exclusive Right to Provide Water Not a Covenant Running With the Land).
W77-03716 1008 6E

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W77-03897 1008 2L

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

Energy Costs Dictate Efficient Well Design,
W77-04119 1009 8B

Morphometry and Floods in Small Drainage Basins Subject to Diverse Hydrogeomorphic Controls,
W77-04265 1009 2E

Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

Second Test Drilling Program Begun to Support RGREP.
W77-04290 1009 8G

Potential Impact of the Development of Lignite Reserves on Water Resources of East Texas,
W77-04297 1009 5B

Water Pollution Control Act of 1972 Regional Impacts Houston Ship Channel/Galeston Bay.
W77-04309 1009 5G

Marshall Ford Dam and Reservoir, Colorado River, Texas; Revision of Flood Control Regulations.
W77-04369 1009 6E

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

Flood Control Regulations; Marshall Ford Dam and Reservoir, Colorado River, Texas,
W77-04924 1010 6F

A Practical Methodology for River Quality Simulation Through the Stage-Wise Generation of Transition Function,
W77-05257 1011 5G

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Index of Surface-Water Stations in Texas, October 1976,
W77-05760 1012 7C

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

An Hierarchical Goal Programming Approach to Environmental-Land use Management,
W77-05979 1012 6G

City of Corpus Christi V Neuces County Water Control and Improvement District No 3 (Water Improvement District Allowed to Supply Water for Domestic Use to Neighboring Town).
W77-06065 1012 6E

Corporate Powers in Drainage and Irrigation Operations.
W77-06071 1012 6E

Powers Respecting Flood Control.
W77-06072 1012 6E

Pesticides Data-Collection Activities of the U.S. Geological Survey in Texas,
W77-06344 1013 5B

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

Coastal Public Lands Management Act of 1973.
W77-06568 1013 6E

Hydrologic Interpretation of Geophysical Data from the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas,
W77-06970 1014 4B

Control Sewer Corrosion with H2O2,
W77-06993 1014 8G

Subsidence: Settling Down Within the Laws of Accretion, Reliction, Erosion, and Submergence,
W77-07238 1015 6E

Pecos River Compact.
W77-07262 1015 6E

Port Acres Sportman's Club V Mann (Public's Right to Use Navigable Waters Over Privately Owned Submerged Lands).
W77-07270 1015 6E

Amdel Pipeline Inc V State of Texas (Statutory Requirement of Payment for Spoil Dredged from Bottom of Approaches to Corporate Loading Docks).
W77-07271 1015 6E

Salvops-Hopper Dredge 'A. Mackenzie',
W77-07343 1015 8D

Summer Growth Depression in the Striped Mullet, Mugil Cephalus L.,
W77-07378 1015 5C

Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

Flood Plain Information; San Antonio River, Bexar County, Texas.
W77-07635 1016 4A

Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

Flood Hazard Studies in Central Texas Using Orbital and Suborbital Remote Sensing Imagery,
W77-08069 1016 7B

The Application of Remote Sensing Technology to the Inventory of Playa Lakes in the High Plains of Texas,
W77-08077 1016 7B

Evaluation of Thermal X/5-Detector Skylab S-192 Data for Estimating Evapotranspiration and Thermal Properties of Soils for Irrigation Management,
W77-08079 1016 7B

Recreational Use of Texas Rivers--Recommendations for Adoption of the Texas Public Rivers Act,
W77-08134 1017 6E

Implementation of an Optimization Model for Operation of a Metropolitan Reservoir System,
W77-08211 1017 4A

Discriminating Coastal Rangeland Production and Improvements with Computer Aided Techniques,
W77-08410 1017 4A

Monitoring Vegetation Conditions from LANDSAT for Use in Range Management,
W77-08412 1017 4A

Timber Type Separability in Southeastern United States on LANDSAT-1 MSS Data,
W77-08418 1017 4A

The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

Wildlife Management by Habitat Units--A Preliminary Plan of Action,
W77-08426 1017 4A

An Overview of the Development of Remote Sensing Techniques for the Screwworm Eradication Program,
W77-08427 1017 3F

The Rationale for Attempting to Define Salt Marsh Mosquito-Breeding Areas in Galveston County by Remote Sensing the Associated Vegetation.
W77-08428 1017 4A

Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Hydrologic Unit Map--1974, State of Texas.
W77-08474 1017 7C

Water-Quality Records for Selected Reservoirs in Texas, 1974-75 Water Years,
W77-08483 1017 5A

Fault Control of Subsidence, Houston, Texas,
W77-08662 1018 4B

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

Analytical Models for the Evaluation of Supplemental Aeration in Texas Estuaries,
W77-08917 1018 5B

Water Rights Adjudication Act.
W77-08994 1018 6E

Unlawful Use, Diversion or Waste of State Water.
W77-08995 1018 6E

Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

Water Quality Modeling in Texas,
W77-09181 1019 5B

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

A Biological and Chemical Comparison of Various Areas of a Reservoir,
W77-09342 1019 5C

Flood Plain Information: Big and Little Fossil Creeks, Fort Worth, Texas.
W77-09364 1019 4A

Flood Plain Information: Holliday and McGrath Creeks, Wichita Falls, Texas.
W77-09376 1019 4A

Diatoms in Pond Plankton: Relationships to Epiphytic and Epipelic Populations,
W77-09628 1020 5C

Potassium Sources and Availability on a Deep, Sandy Soil of East Texas,
W77-09972 1020 2G

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

Water Resources Data for Texas, Water Year 1975--Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and Intervening Coastal Basins.
W77-10552 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin and Intervening Coastal Basins.
W77-10553 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin and Intervening Coastal Basins.
W77-10554 1021 7C

Heavy Metal Concentrations in Organisms from an Actively Dredged Texas Bay,
W77-10739 1021 5C

An Examination of the Rainfall Distribution Over the Target Area of the Colorado River Municipal Water District's Weather Modification Program,
W77-10775 1021 3B

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone. Spec. Rept. III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Volume II--Appendices,
W77-10908 1022 2L

Flood Plain Information: Bull Creek, Austin, Texas.
W77-10918 1022 4A

Flood Plain Information: Colorado River-Onion Creek to Montopolis Bridge, Austin, Texas.
W77-10919 1022 4A

Impact on Texas Water Quality and Resources of Alternate Strategies for Production, Distribution, and Utilization of Energy in Texas in the Period 1974-2000,
W77-10930 1022 5C

The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

The Texas Open Beaches Act: Public Rights to Beach Access,
W77-11156 1022 6E

Canadian River Compact.
W77-11188 1022 6E

Rio Grande Compact.
W77-11189 1022 6E

Regional Waste Disposal Act.
W77-11190 1022 6E

Artesian Wells.
W77-11191 1022 6E

Criminal Prosecution for Water Pollution.
W77-11192 1022 6E

Rights in State Water (Appropriation Plan).
W77-11193 1022 6E

Modeling Soil Water Hydrology Under A Post Oak (Quercus Stellata Wangenh.) - Shortleaf Pine (Pinus Echinata Mill.) Stand in East Texas,
W77-11228 1022 2G

Flood Plain Information: Atlanta, Texas: Black Bayou and Tributaries.
W77-11840 1023 4A

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

Water-Resources Investigations in Texas, Fiscal Year 1977.
W77-12151 1023 4A

Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

Stream-Channel Response to Floods, With Examples from Central Texas,
W77-12553 1024 2J

Flood Plain Information: Colorado River and Country Club Creek, Austin, Texas.
W77-12595 1024 4A

Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

Flood Plain Information: Caney Creek, Montgomery County, Texas.
W77-12597 1024 4A

Irrigation with Saline Water in South Texas,
W77-12745 1024 3C

Irrigation with Saline Water in the Pecos Valley of West Texas,
W77-12746 1024 3C

Coastal Waterway Act of 1975.
W77-12907 1024 6E

Prohibition Against Pollution.
W77-12908 1024 6E

Texas Water Quality Act (Establishment of Water Quality Board).
W77-12909 1024 6E

TEXAS COASTAL BASINS
Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

TEXAS HIGH PLAINS
Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

TEXAS PUBLIC RIVERS ACT
Recreational Use of Texas Rivers--Recommendations for Adoption of the Texas Public Rivers Act,
W77-08134 1017 6E

TEXTILE INDUSTRY

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

TEXTILES

Sorption on Activated Carbon of Impurities of Textile Industry Effluents (Sorpcja zanieczyszczen ze sciekow przemyslu wlokienniczego na weglu aktywnym),
W77-00339 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Zinc Removal from Viscose Plant Effluent - by Extraction with Alkyl Phosphoric Acid into an Organic Solvent and Re-Extraction Decomposition Therefrom.
W77-00756 1002 5D

Elimination of ZN from Wastewater of Rayon Plants by Precipitation,
W77-00757 1002 5D

Large-Scale Effluent Treatment in the Dyestuffs Industry.
W77-00758 1002 5D

Reclaiming Water,
W77-00759 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Continuous Treatment of Wool Wash Liquid - Efficiency Increased by Supplementary Closed Contaminant Treatment Circuit Linked to Liquid Cleaning Circuit.
W77-02002 1004 5D

Removing Polyvinyl Alcohol from Textile Finishing Waste Water - by Adding a Binder, e.g., a Salt or Formaldehyde, to Insolubilise the Polymer.
W77-02003 1004 5D

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Carpet and Rug Industry Case Study I: Water and Wastewater Treatment Plant Operation,
W77-02574 1005 5D

Waste Treatment Advances: Waste Water Treatment Via Activated Carbon,
W77-02610 1006 5D

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Evaluation of Wastewater Treatment Facilities.
W77-03619 1008 5D

In-Plant, Outside Pollution Evils, Energy Saving Top AATCC Concerns.
W77-03620 1008 5G

Effect of Dyes Used in the Textile Industry on the Purification of Effluents by the Activated Sludge Process (Wpliyw niektorych barwnikow stosowanych w przemysle wlokienniczym na oczyszczanie sziekow osadem czynnym),
W77-03821 1008 5D

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

Sorption of Organic Impurities from Textile Industry Effluents on Ion-Exchangers (Sorpcja zanieczyszczen organicznych ze sciekow przemyslu wlokienniczego na jonitach),
W77-04819 1010 5D

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Sludge Dewatering in Textile Plants,
W77-06226 1013 5D

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

The Removal of Acid Dye from Effluent Using Natural Absorbents-II,
W77-06228 1013 5D

IWS Low Chrome Effluent Dyeing,
W77-06229 1013 5D

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Purification of Industrial Waste Water Containing Organic Impurities--By Contacting with Adsorbent Polymer Material in Solvated Gel State.
W77-07222 1015 5D

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-08278 1017 5D

Taking Acres Out of Pollution-Control Plans,
W77-08283 1017 5D

Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Treatment of Wool-Scouring Effluents with Inorganic Chemicals,
W77-09425 1019 5D

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

Activated Carbon Adsorption Process for Purification of Textile Waste Waters,
W77-09744 1020 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-09745 1020 5D

Economic Analysis of Effluent Guidelines: Textiles Industry,
W77-10749 1021 5G

Synthesis and Study of Ion-Exchange Celluloses. Their Use in the Purification of Waste Waters from the Textile Industry. I. Synthesis of a Cellulose Grafted with Polyacrylic Acid Chains and of a Cellulose Incorporating Quaternary Ammonium (In French),
W77-12337 1024 5D

Processing of Coagulation Sediments of Textile Industry Effluents (Badania nad przerabianiem osadow pokoagulacyjnych ze sciekow przemyslu wlokienniczego),
W77-12346 1024 5D

Work of Centroproject on the Problems of Textile Effluent Treatment (Problematika cisteni textilnich odpadnich vod a jeji reseni v Centroprojektu),
W77-12359 1024 5D

TFM

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Kinetics of Lampricide (TFM, 3-trifluoromethyl-4-nitrophenol) Residues in Model Stream Communities,
W77-07115 1015 5C

Residues of 3-trifluoromethyl-4-nitrophenol (TFM) Undetected in Lake Trout and Chinook Salmon from the Upper Great Lakes,
W77-07187 1015 5A

Renal Excretion in Channel Catfish Following Injection of Quinaldine Sulphate or 3-trifluoromethyl-4-nitrophenol,
W77-09662 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and

Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

THAILAND

A Multivariate Mathematical Model of Monthly River Flow,
W77-07675 1016 2E

Mercury Content of Several Predacious Fish in the Andaman Sea,
W77-12652 1024 5B

THALASSIOSIRA

Heavy Metal Tolerance of Marine Phytoplankton. II. Copper Tolerance of Three Species in Dialysis and Batch Cultures,
W77-09781 1020 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

THALWEG

Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

THAMES ESTUARY

The Response of an Estuary to the Closure of a Mobile Barrier; Richmond Barrier on the Upper Thames Estuary,
W77-07366 1015 2L

The Third London Airport Study,
W77-09037 1018 2L

THAMES ESTUARY (ENG)

A Natural Pollution Experiment: The Effects of a Sewage Strike on the Fauna of the Thames Estuary,
W77-07124 1015 5C

THAMES RIVER (CONN)

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 1st Quarterly Report.
W77-03917 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 2nd Quarterly Report.
W77-03918 1008 5C

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut. 3rd Quarterly Report.
W77-03919 1008 5C

THAMES RIVER (ONTARIO CANADA)

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

THANITE

Field Tests of Isobornyl Thiocyanoacetate (Thanite) for Live Collection of Fishes,
W77-06747 1014 5C

THAW LAKES

The Classification and Geomorphic Implications of Thaw Lakes on the Arctic Coastal Plain, Alaska,
W77-03296 1007 2C

THAWING SOILS

Suprapermafrost Water,
W77-06630 1014 2C

THE GREAT BASIN

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

THE NETHERLANDS

Consequences of Groundwater Extraction on Evapotranspiration and Saturated-Unsaturated Flow,
W77-10422 1021 4B

Surface Roughness of Crops and Potential Evapotranspiration,
W77-10771 1021 2D

THE WASH (ENGLAND)

Mercury in Waterways that Drain into the Wash, in Eastern England,
W77-10152 1021 5B

THEIS EQUATION

Iterative Method of Determining Aquifer Constants,
W77-00555 1002 2B

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

THEMAL POLLUTION

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

THEOREM OF COMPARATIVE ADVANTAGE

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

THEORETICAL ANALYSIS

The Theory of Welfare Cost Measurement,
W77-00709 1002 6B

Value of Time in Recreation Benefit Studies,
W77-00710 1002 6B

On the Species Transport Equation for Flow in Porous Media,
W77-02452 1005 2F

Partial Wave Damping in Pneumatic Breakwaters,
W77-02455 1005 8B

Pollution, Welfare, and Environmental Policy in the Theory of Comparative Advantage,
W77-03958 1008 6G

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

On the Description of the Hydrographic State and the Circulation in the Baltic Deep Water,
W77-04006 1008 2L

Coastal-Trapped Waves in a Continuously Stratified Ocean,
W77-04267 1009 2L

Theoretical Analysis of Wetting Front Instability in Soils,
W77-04768 1010 2G

Derivation of Equations for Rainfall Infiltration,
W77-05182 1011 2G

Mathematical Model of a Three-Dimensional Non-Isothermal Glacier,
W77-05421 1011 2C

Mathematical Models of Ice Shelves,
W77-05422 1011 2C

Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

A Nitrogen Gas (N2) Model for the Lower Columbia River, Final Report,
W77-07422 1015 5B

The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

The Evaluation of Simple and Optimal Decision Rules with Misspecified Welfare Functions,
W77-07439 1015 6B

Computer Prediction of Stationary States of Membranes from Differential Permeabilities,
W77-08234 1017 3A

Theoretical and Experimental Study of Flow Separation After a Sudden Increase in the Cross-Section of a Circular Pipe (Etude Theorique Et Experimentale D' Un Ecoulement Decolle En Aval D'Un Elargissement Brusque De Revolution),
W77-09034 1018 8B

Economic Incentives for Land Use Control,
W77-09467 1019 6B

Some Theoretical and Practical Aspects of Biological Purification of Effluents from Sulfite Pulping (Einige theoretische und praktische Aspekte der biologischen Sulfitzellstoffabwasserreinigung),
W77-10722 1021 5D

Effects of Fog Droplets on Wake Vortex Decay Rate,
W77-12823 1024 2B

THERAPEUTANTS

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

THERMAL ACCLIMATION

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

THERMAL BAR PERIOD

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

THERMAL CAPACITY

Effect of Evaporation Time and Temperature on Water Loss in Calcareous Soil,
W77-04323 1009 2D

Heat Content of North Mississippi Reservoirs,
W77-06088 1012 5B

Effluent Guidelines and Standards Steam Electric Power Generating Point Source Category.
W77-09558 1019 5G

Effect of Compaction and Moisture Content on Specific Heat and Thermal Capacity of Soils,
W77-12161 1023 2G

THERMAL CASING INSULATION
Artic Casing Pack,
W77-04286 1009 8G

THERMAL CONDITIONING
Sludge Processing to Optimize Digestibility and Energy Production,
W77-11709 1023 5E

THERMAL CONDUCTIVITY
Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Comparison of Field-Measured and Calculated Soil-Heat Fluxes,
W77-09433 1019 2G

Soil-Heat Flux Determination: Temperature Gradient Method with Computed Thermal Conductivities,
W77-09434 1019 2G

Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

THERMAL DISCHARGE
Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

THERMAL DISCHARGE EFFECTS
Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

THERMAL DISTRIBUTION
The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

THERMAL DRYING
Thermal Drying of Sludge,
W77-11743 1023 5E

THERMAL ECOLOGY
Thermal Ecology II.
W77-05541 1011 5C

THERMAL ENERGY
Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

THERMAL ENERGY ANALYSIS
Determination of Dimethylnitrosamine in Air, Water, and Soil by Thermal Energy Analysis: Measurements in Baltimore, Md.,
W77-10129 1021 5A

THERMAL ENERGY STORAGE
Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

THERMAL EXCHANGE
Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

THERMAL EXPANSIBILITIES
Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

THERMAL GRADIENT
Ocean Thermal Gradient Power Plant,
W77-01206 1003 8C

THERMAL IMAGERY ANALYSIS
Investigation of Remote Sensing Techniques for Agricultural Feedlot Pollution Detection,
W77-01533 1003 5A

THERMAL INSULATION
Artic Casing Pack,
W77-04286 1009 8G

THERMAL MODELS
Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

THERMAL OXIDATION
Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

THERMAL PLUME
Preoperational and Operational Hydrothermal Field Data Acquisition and Analysis,
W77-03837 1008 5B

THERMAL PLUMES
Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

Thermal Plumes in the Kansas River,
W77-02187 1005 5B

Observations of the Kelvin-Helmholtz Instability in Laboratory Models and Field Examples of Thermal Plumes,
W77-02796 1006 2H

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

THERMAL POLLUTION
Analytical Solution for 3-D Diffusion Model,
W77-00141 1001 5B

Effect of the Discharge Waters of the Tripol'e Thermal Electric Station of the Thermal Regime of the Dnieper, (In Russian),
W77-00408 1001 5C

Heat Dispersion in Physical Estuarine Models; Report 2, Experiments in the Delaware River Model,
W77-00665 1002 5B

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

Diversity of Marine Invertebrates in a Thermal Effluent,
W77-00883 1002 5C

Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

Beneficial Use of Thermal Effluent in Lobster Culture,
W77-01707 1004 5C

Water Use Implications for Nuclear Power Stations in the United States of America,
W77-02114 1005 6G

Thermal Plumes in the Kansas River,
W77-02187 1005 5B

Thermal Effects on Biodegradation of Pollutants in Water,
W77-02218 1005 5B

Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

Are the Chesapeake Bay Waters Warming Up,
W77-02472 1005 2L

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

Analysis and Control of Thermal Pollution (178) Training Manual,
W77-02632 1006 5B

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Scanning Thermal Plumes,
W77-02682 1006 5A

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Effect of Heat-Exchange Waters of a State Regional Electric Power Plant on Conditions of Water Use by the Population, (In Russian),
W77-02906 1006 5G

Temperature Tolerance of Young-of-the-Year Lake Whitefish, Coregonus Clupeaformis,
W77-03024 1006 5C

Upper Lethal and Preferred Temperatures of the Slimy Sculpin, Cottus Cognatus,
W77-03025 1006 5C

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

Calibration of a Thermal Enrichment Model for Shallow, Barricaded Estuaries,
W77-03171 1007 5B

Thermal Effects on Aquatic Organisms, Annotated Bibliography of the 1975 Literature.
W77-03640 1008 5C

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

River and Cooling Water Temperature Fluctuations,
W77-03834 1008 5B

Preoperational and Operational Hydrothermal Field Data Acquisition and Analysis,
W77-03837 1008 5B

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Aquatic Organisms Response to Severe Stress Following Acutely Sublethal Toxicant Exposure,
W77-04024 1008 5C

Ontogenetic Variation in the Multiple Hemoglobins of Coho Salmon (Oncorhynchus Kisutch) and Effect of Environmental Factors on their Expression,
W77-04054 1008 5C

Effects of Thermal Pollution on Certain Aquatic Invertebrates,
W77-04144 1009 5C

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W77-04423 1009 5C

Thermal Pollution in the Los Angeles-Long Beach Harbor: Consequences and Alternatives,
W77-04476 1009 5B

Behavior of Fish Influenced by Hotwater Effluents as Observed by Ultrasonic Tracking,
W77-04568 1009 5C

Allelic Selection in a Fish (Gymnocephalus Cernua (L.)) Subjected to Hotwater Effluents,
W77-04572 1009 5C

Effect of the Novorossisk Heat Electric Power Station Warm Waters on Zooplankton, (In Russian),
W77-04583 1009 5C

Effect of Konakova State Regional Electric Power Station Heated Water Discharge on the Bream Growth in the Ivankov Reservoir, (In Russian),
W77-04589 1009 5C

Discharge of Treated Wastewater in Lakes, (In German),
W77-04595 1009 5B

The Proliferation in the Seine of a Tropical Benthic Diatom: Navicula Confervacea (Kutz.), (In French),
W77-04726 1010 5C

Wasted Heat and Aquatic Ecosystems,
W77-04869 1010 5C

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

The Effect of Water Temperature on Ecological Processes in a Reservoir Receiving Heated Water,
W77-05108 1011 5C

Ice Growth in Duluth-Superior Harbor,
W77-05129 1011 2C

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

An X-Z Hydraulic/Thermal Model for Estuaries,
W77-05358 1011 5B

Thermal Ecology II.
W77-05541 1011 5C

Heated Waste-Water Effects on Aquatic Ecosystems,
W77-05545 1011 5C

Rooting and Growth of Red Mangrove Seedlings from Thermally Stressed Trees,
W77-05547 1011 5C

The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

Thermal Effluents, Fish, and Gas-Bubble Disease in Southwestern Lake Michigan,
W77-05558 1011 5C

Temperature Preference and Movement of Fish in Relation to a Long, Heated Discharge Channel,
W77-05572 1011 5C

Influence of Thermal Loading on the Ecology of Intertidal Algae,
W77-05574 1011 5C

Relationship Between Thermal Loading and Parasitism in the Mosquitofish,
W77-05575 1011 5C

Effects of a Thermal Effluent on the Ostracods of Par Pond, South Carolina,
W77-05576 1011 5C

Seasonal Distribution of a Podocopid Ostracod in a Thermally Altered Area of Tampa Bay, Florida,
W77-05577 1011 5C

Chronic In Situ Exposure of the Bay Scallop to Power-Plant Effluents,
W77-05578 1011 5C

Effects of the Palisades Nuclear Power Plant on Lake Michigan,
W77-05579 1011 5C

Effects of Power-Plant Operation on the Biota of a Thermal Discharge Channel,
W77-05580 1011 5C

Seasonal Abundance, Biomass, Diversity, and Trophic Structure of Fish in a Salt-Marsh Tidal Creek Affected by a Coastal Power Plant,
W77-05581 1011 5C

Fish Diversity in Adjacent Ambient, Thermal, and Post-Thermal Freshwater Streams,
W77-05582 1011 5C

Distribution and Abundance of Fish Populations in the Middle Wabash River,
W77-05583 1011 5C

Seasonal Distribution and Abundance of Ohio River Fishes at the J. M. Stuart Electric Generating Station,
W77-05584 1011 5C

The Macrobenthic Community of a Thermally Altered Area of Tampa Bay, Florida,
W77-05585 1011 5C

Thermal Effluent in Coastal Rivers: A Contribution to the Location of Power Plants,
W77-05587 1011 5C

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

The Connecticut River Ecological Study: A Synopsis,
W77-05589 1011 5C

The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

The Effect of a Thermal Effluent on the Benthos of Thomas Hill Reservoir, Missouri,
W77-05605 1012 5C

The Age and Growth of the Largemouth Bass Micropterus Salmoides (Lacepede), in a Thermally Loaded Reservoir,
W77-05731 1012 5C

Growth of the White Crappie on a Reservoir Receiving a Thermal Discharge: Thomas Hill, Missouri,
W77-05732 1012 5C

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

Types of Thermal Plumes in Coastal Waters,
W77-05807 1012 5B

Delineation of Thermal Effluents Discharged into Tropical Waters around Puerto Rico by Aerial Infrared Scanning,
W77-05814 1012 5B

Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

Transient Heat Releases from Offshore Nuclear Plants,
W77-05967 1012 5B

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

Lake Currents and Temperatures Near the Western Shore of Lake Michigan,
W77-06687 1014 2H

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

Primary and Secondary Production of Plankton in Heated Lakes, (In Polish),
W77-06752 1014 5C

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

Growth and Movement of Fish in the Vicinity of a Thermal Discharge,
W77-06766 1014 5C

First Reported Incidence of Gas-Bubble Disease in the Heated Effluent of a Steam Generating Station,
W77-06922 1014 5C

Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

Effects of Increased Water Temperature on Daphnia Pulex,
W77-07130 1015 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-07134 1015 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Thermal Pollution and Its Control,
W77-07245 1015 5G

A Scientific and Legal Look at Thermal Pollution,
W77-07256 1015 6E

Study on Respiratory Metabolism Modifications in Acartia clausi (Crustacea: Copepoda) Populations after Passage through the Cooling Circuit of a Power Plant,
W77-07305 1015 5C

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Legal Control of Consumptive Water Use in Pennsylvania Power Plants,
W77-08368 1017 3E

Thermal and Chemical Problems of Thermal Waters, (Les Problemes Thermiques et Chimiques des eaux Thermales),
W77-08678 1018 5B

Some Features of the Geochemistry of Thermal Water in Platform Areas from Experimental Data,
W77-08679 1018 5B

Compilation of Temperature Preference Data,
W77-08767 1018 7C

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

A Transient, Two-Dimensional, Discrete-Element, Far-Field Model for Thermal Impact Analysis of Power Plant Discharges in Coastal and Offshore Regions. Part I: General Description of the Mathematical Model and Results of an Application,
W77-08905 1018 5B

Natural Stream Temperature Variations in a Catchment,
W77-09039 1018 5B

Thermal Loading of Natural Streams,
W77-09068 1018 5B

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Pollution of Lake Michigan and Its Tributary Basin.
W77-09528 1019 5G

Effluent Guidelines and Standards Steam Electric Power Generating Point Source Category.
W77-09558 1019 5G

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

Planktonic Ciliates in the Ivan'kovo Water Reservoir, (In Russian),
W77-10010 1020 5C

Simulation Factors Involved in Ocean Thermal Power Plants,
W77-10034 1020 5B

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

Problems of Heat Storage in Aquifers,
W77-10332 1021 5B

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Ion Stimulation of Metabolism in Fish Adapting to Growth in Warm Water, (In Ukranian),
W77-10971 1022 5C

Acceleration of Sexual Maturation of the Rainbow Trout Salmo Gairdneri Rich. Under the Effect of an Elevated Water Temperature, (In Russian),
W77-10987 1022 5C

Report of a Workshop on the Impact of Thermal Power Plant Cooling Systems on Aquatic Environments, Vol. I. Working Group Results.
W77-11123 1022 5C

Thermal Discharge Residence by Lake Michigan Salmonids,
W77-11145 1022 5C

Plume Residence and Toxic Material Accumulation,
W77-11146 1022 5C

Summary of Recaptures of Fish Tagged at Two Power Plants Between 1972 and 1974,
W77-11147 1022 5C

Temperature Selection and Avoidance Behavior of Salmonids,
W77-11148 1022 5C

Body Temperature Change in Live and Dead Gizzard Shad, Dorosoma Cepedianum,
W77-11149 1022 5C

Phytoplankton and Nutrients Near the Zion Nuclear Plant During Upwelling,
W77-11150 1022 5C

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

Cold Shock to Aquatic Organisms: Guidance for Power-Plant Siting, Design, and Operation,
W77-11502 1023 5C

Susceptibility of Threadfin Shad to Impingement,
W77-11643 1023 5C

Observations of Crassostrea virginica Cultured in the Heated Effluent and discharged Radionuclides of a Nuclear Power Reactor,
W77-11655 1023 5C

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

THERMAL POLLUTIONS

Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

THERMAL POWER

Power from the Sea,
W77-00977 1002 3E

Ocean Thermal Gradient Power Plant,
W77-01206 1003 8C

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Evaluation of Alternative Solutions to Gas Bubble Disease Mortality of Menhaden at Pilgrim Nuclear Power Station,
W77-06928 1014 5G

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

Geothermal Systems and Power Development,
W77-07302 1015 4B

Gas Bubble Disease Mortality of Atlantic Menhaden at Pilgrim Nuclear Power Station, April, 1975,
W77-07429 1015 5C

Geothermal Resources, A New Look,
W77-07477 1015 4B

Method and Apparatus for Obtaining Electrical Power from Sea Water,
W77-08032 1016 8C

The ERDA Geothermal Program,
W77-08314 1017 4B

A Case for Geothermal Energy,
W77-08655 1018 8C

Geothermal Energy Development,
W77-08661 1018 4B

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

Man-Made Geothermal Energy Source Uses Oil-Field Know-How.
W77-10515 1021 8A

Institutional and Environmental Aspects of Geothermal Energy Development,
W77-12679 1024 6G

THERMAL POWER PLANTS

Power from the Sea,
W77-00977 1002 3E

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Freshwater Ecological Effects,
W77-02657 1006 5G

Guidelines for the Preparation of Environmental Reports for Fossil-Fueled Steam Electric Generating Stations,
W77-06918 1014 6G

Geothermal Energy: Needed, Effective Heat Transfer Equipment,
W77-07301 1015 8G

Economics of Geothermal Energy Development (In Imperial County, California),
W77-08657 1018 8C

THERMAL POWERPLANT

The Distribution and Abundance of Larval Fishes Along the Western Shore of Lake Erie at Monroe, Michigan,
W77-03011 1006 2H

THERMAL POWERPLANTS

Effect of the Discharge Waters of the Tripol'e Thermal Electric Station of the Thermal Regime of the Dnieper, (In Russian),
W77-00408 1001 5C

Escom Pioneers Dry Cooling,
W77-01467 1003 3E

The Cooling Water Equation,
W77-01468 1003 6D

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

Power Plant Siting: Caught between Energy Crisis and Environmental Concern,
W77-04363 1009 6E

Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

Geothermal Power, The 'Sleeper' in the Energy Race,
W77-07296 1015 3E

Electric Power Generation from Geothermal Hot Water Deposits,
W77-07300 1015 8C

Simulation Factors Involved in Ocean Thermal Power Plants,
W77-10034 1020 5B

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

THERMAL PROPERTIES

The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

Method for Producing Mechanical Energy from Geothermal Brine,
W77-01710 1004 3C

THERMAL PROPERTIES

Thermal Plumes in the Kansas River,
W77-02187 1005 5B

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

Research on Cements for Geothermal and Deep Oil Wells,
W77-08320 1017 8F

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

Hydraulic and Thermal Properties of a Sandy Soil as Influenced by Incorporation of Sewage Sludge,
W77-11236 1022 5B

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

THERMAL RADIATION

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

A Study of Cooling Initially Uniform and Thermally Stratified Layers of Water,
W77-08444 1017 5G

Inactivation of Poliovirus in Wastewater Sludge with Radiation and Thermoradiation,
W77-11756 1023 5D

THERMAL REGENERATION

Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

THERMAL RESPONSE

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

THERMAL SHOCK

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

THERMAL SPRINGS

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

The Algal Flora in the Thermal Baths of Montegrotto Terme (Padua). Its Distribution Over One-Year Period,
W77-06770 1014 5C

Thermal and Isotopic Studies on the Crater Lakes of Monticchio (Lucania, Italy), (In Italian),
W77-07392 1015 2H

Assessment of Geothermal Resources of the United States--1975.
W77-07476 1015 4B

Convective Heat Flow from Hot Springs in the Long Valley Caldera, Mono County, California,
W77-07488 1015 2K

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

Insect Fauna of Some Virginia Thermal Streams,
W77-11476 1022 5C

Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

THERMAL STRATIFICATION

Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Synoptic Survey of Hypolimnetic Aeration,
W77-04899 1010 5G

The Effects of Diurnal Mixing on Thermal Stratification of Static Impoundments,
W77-05172 1011 4A

Laboratory Study of Unsteady Energy Transfer in Surface Layers of Stratified Water,
W77-06006 1012 2H

Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

Meromixis in Ulmener Maar (Germany).
W77-07520 1015 5C

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

A Study of Cooling Initially Uniform and Thermally Stratified Layers of Water,
W77-08444 1017 5G

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W77-10741 1021 5C

The Seasonal Thermal Structure of Deep Temperature Lakes,
W77-11151 1022 2H

A Mathematical Model for Simulating the Temperature Structure of Stratified Reservoirs and Its Use in Reservoir Outlet Design,
W77-12114 1023 5B

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

THERMAL STRESS

Thermal Stress for Hexadecane Decomposition in Seawater of a Natural Environment,
W77-00876 1002 5C

The Effects of Thermal Effluent on the American Oyster, Crassostrea Virginica Gmelin in Indian River Bay, Delaware,
W77-01237 1003 5C

The Effect of Temperature on the Behavior of Young Tautog, Tautoga Onitis (L.),
W77-01241 1003 5C

Analysis and Control of Thermal Pollution (178) Training Manual,
W77-02632 1006 5B

Aquatic Organisms Response to Severe Stress Following Acutely Sublethal Toxicant Exposure,
W77-04024 1008 5C

Ontogenetic Variation in the Multiple Hemoglobins of Coho Salmon (Oncorhynchus Kisutch) and Effect of Environmental Factors on their Expression,
W77-04054 1008 5C

Effect of Parental Temperature Experience on Thermal Tolerance of Eggs of Menidia Audens,
W77-04551 1009 5C

Effects of Thermal Shock on Larval Estuarine Fish-Ecological Implications with Respect to Entrainment in Power Plant Cooling Systems,
W77-04556 1009 5C

Thermal Ecology II.
W77-05541 1011 5C

Factors Influencing Thermal Tolerances of Individual Organisms,
W77-05543 1011 5C

Thermal Alteration and the Enhancement of Species Populations,
W77-05544 1011 5C

Heated Waste-Water Effects on Aquatic Ecosystems,
W77-05545 1011 5C

Potential Influence of Thermal Effluents on the Production and Water-Use Efficiency of Mangrove Species in South Florida,
W77-05546 1011 5C

Effects of Power-Plant Entrainment Temperatures on Oxygen Consumption Patterns of Amphipods and Grass Shrimp,
W77-05553 1011 5C

Growth of Salmonid Fishes from Heated and Unheated Areas of Lake Michigan-Measured by RNAeDNA Ratios,
W77-05554 1011 5C

Thermal Tolerance of Adult Asiatic Clam,
W77-05559 1011 5C

The Effect of Acclimation on the Temperature Tolerance of Young Muskellunge Fry,
W77-05560 1011 5C

Thermal Tolerance of Stream Cyprinid Minnows,
W77-05561 1011 5C

Some Relationships of Upper Thermal Tolerances to Preference and Avoidance Responses of the Bluegill,
W77-05563 1011 5C

Further Studies of Cold-Shock Effects on Susceptibility of Young Channel Catfish to Predation,
W77-05564 1011 5C

Acute Cold-Shock Resistance of Gizzard Shad,
W77-05565 1011 5C

The Effect of Cold Shock on the Vulnerability of Young Bluegill to Predation,
W77-05566 1011 5C

Interactive Effects of Temperature, Salinity, and other Factors on Coastal Copepods,
W77-05591 1011 5C

Survival of Juvenile Fishes Receiving Thermal and Mechanical Stresses in a Simulated Power-Plant Condenser,
W77-05598 1011 5C

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06034 1012 5C

Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Effects of Thermal Shocks on Drifting Aquatic Insects: A Laboratory Simulation,
W77-07839 1016 5C

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

Report of a Workshop on the Impact of Thermal Power Plant Cooling Systems on Aquatic Environments, Vol. I. Working Group Results.
W77-11123 1022 5C

Reproductive Biology of Rainbow and Brown Trout in a Geothermally Heated Stream: The Firehole River of Yellowstone National Park,
W77-11288 1022 5C

Responses of a Freshwater Sculpin (Cottus Cognatus Gracilis) to Temperature,
W77-11295 1022 5C

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

Comparative Cold Resistance of Three Columbia River Organisms,
W77-11353 1022 5C

Effects of Acute Changes in Temperature and Salinity on Pulsation Rates in Ephyrae of the Scyphozoan Aurelia Aurita,
W77-12010 1023 5C

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Development of Atlantic Salmon (Salmo Salar) Eggs and Alevins under Varied Temperature Regimes,
W77-12026 1023 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

Power Plants and Plankton,
W77-12039 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

THERMAL STUDIES
Power Generation from Hot Brines,
W77-06442 1013 3B

Indiana Stream-Temperature Characteristics,
W77-08755 1018 7C

THERMAL TOLERANCE
Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

THERMAL TUNNELING
Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A--Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B--Subterrene Cost Analyses,
W77-06664 1014 8A

THERMAL WASTE
Evaluation of Proposed Man-Made Ponds for Food Production to Recover Values in Waste Heat and Solid Organic Sludges,
W77-00150 1001 5D

THERMAL WATER
Effects of the Cooling Water Discharge on the Macroinvertebrates and Fish Populations Around Flevo Power Station,
W77-01245 1003 5C

The Species, Size and Age Composition of Fishes in Donets Part of Warm Water Sewage by Lugansk State Regional Electric Power Station, (In Russian),
W77-01608 1004 5C

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

Thermal Tolerance of Juvenile Pacific Salmon and Steelhead Trout in Relation to Supersaturation of Nitrogen Gas,
W77-05775 1012 5C

Thermal Convection in a Cavernous Aquifer,
W77-05951 1012 2F

Comparative Characteristics of the Parasite Fauna of Bream in Lakes Dusios, Obelijos, Salvantu and Galstas, Which Have Different Thermal Regimes, (In Russian),
W77-07312 1015 2H

Chemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07487 1015 2K

An Investigation of the Technical and Economic Feasibility of Using Low Temperature Geothermal Sources in Colorado,
W77-08310 1017 4B

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W77-08351 1017 4B

Thermal and Chemical Problems of Thermal Waters, Symposium.
W77-08677 1018 2K

Some Features of the Geochemistry of Thermal Water in Platform Areas from Experimental Data,
W77-08679 1018 5B

The Helium Isotopes in Thermal Fluids,
W77-08680 1018 5B

Hydrothermal Processes in the Atlantic Ocean Crust, 26 Degrees N,
W77-08681 1018 2K

Geochemistry of Thermal Waters from Various Geothermal Provinces of India,
W77-08682 1018 2K

Temperature and Chemism of Ground Waters in the Western Areas of the East European Platform,
W77-08683 1018 2K

Geochemistry and Origin of Thermal Waters in Poland,
W77-08684 1018 2K

Thermal Waters in Taiwan, A Preliminary Study,
W77-08685 1018 4B

The Content of Silica in Hot Mineral Waters of France in Relation to Temperature, Sodium Content and Bicarbonates (La Teneur en Silice des eaux Thermominerales de France en Relation Avec la Temperature, la Teneur en Sodium et en Bicarbonates),
W77-08686 1018 2K

Study of the Chemical and Gaseous Composition of Thermal Waters of the Eastern Part of the Pannonian Depression (Considerations sur la Composition Chimique et Gazeuse des eaux Thermales de la Partie Orientale de la Depression Pannonique (Roumanie)),
W77-08688 1018 2K

Important Geothermal Sites in Greece, on the Base of Thermomineral Spring Layings, and the Possibilities of Their Exploitation and Utilisation,
W77-08690 1018 4B

Application of Temperature Preference Studies to Environmental Impact Assessment,
W77-08768 1018 5C

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

Critical Thermal Maxima of Two Species of Estuarine Fish,
W77-10258 1021 5C

Geochemistry of Geopressured Geothermal Waters from the Frio Clay in the Gulf Coast Region of Texas,
W77-10568 1021 2K

Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

Use of Geothermal Brackish Water for Soil Warming and Vegetable Irrigation,
W77-11066 1022 3C

Hot Groundwater Systems in Iceland Traced by Deuterium,
W77-11812 1023 2F

Behavior of Juvenile Chinook Salmon (Oncorhynchus Tshawytscha) In Relation to Simulated Thermal Effluent,
W77-12190 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

The Production of Water from Geothermal Reservoirs: Some Economic Considerations,
W77-12682 1024 3A

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

THERMAL WATERS

Two-Phase, Two-Dimensional simulation of a Geothermal Reservoir,
W77-12674 1024 2F

Geothermal Investigations in Idaho: Part 7, Geochemistry and Geologic Setting of the Thermal Waters of the Camas Prairie Area,
W77-12782 1024 4B

THERMISTOR FLOWMETERS

An Inexpensive Thermistor Flowmeter for Aquatic Biology,
W77-00645 1002 7B

THERMISTORS

Electronic Sensor for Low-to-Medium Windspeeds,
W77-03099 1007 7B

THERMOCLINE

Role of Eddy Diffusivity in Thermocline Formation,
W77-00139 1001 2H

On a Mid-Ocean Thermocline Regime,
W77-00656 1002 2L

Method for Finding Temperature Environments for Fish,
W77-01212 1003 7B

Lake Erie International Jetport Model Feasibility Investigation; Application of Three-Dimensional Hydrodynamic Model to Study Effects of Proposed Jetport Island on Thermocline Structure in Lake Erie,
W77-02994 1006 2H

Hydrodynamics of Large Lakes,
W77-05127 1011 2H

Duration of a DDT-Induced Shift in the Selected Temperature of Atlantic Salmon (Salmo Salar),
W77-06433 1013 5C

Stratification of Kinetic Origin and its Biological Consequences in a Neotropical Man-Made Lake,
W77-06683 1014 2H

Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

Upwelling in a Model of an Intermontane Lake,
W77-07469 1015 5B

THERMOCOUPLE PSYCHROMETER

Performance of the Silver-Psychrometer for Measuring Leaf Water Potential in Situ,
W77-11388 1022 2I

THERMODYNAMIC MODELS

A Thermodynamic Model for Predicting the Formation, Stability, and Weathering of Common Soil Minerals,
W77-02285 1005 2G

THERMODYNAMICS

Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

Non-Equilibrium Thermodynamics of Groundwater Flow Systems: Symmetry Properties of Phenomenological Coefficients and Considerations of Hydrodynamic Dispersion,
W77-07143 1015 2F

THERMOELECTRIC GENERATORS

Development of a Solar Pump for Lift Irrigation Purposes,
W77-11428 1022 3F

THERMOELECTRIC PLANTS

Gas Saturation and Modifying Hydrological Factors in Estuarine Water Used for Cooling a Stream Electric Plant,
W77-05780 1012 5C

THERMOELECTRIC POWER GENERATION

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

THERMOPHILIC BACTERIA

A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

THERMOPHILIC DIGESTION

A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

THERMOPHILIC PLANTS

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

THERMOPHILIC SYSTEM

Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

THERMOPREFERENCE (FISH)
Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

THERMOREGULATION
Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

THERMOREGULATION (FISH)
Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

THERMOSELECTION
Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

THESAURI
Subject Keyword List, (Estuarine and Coastal Marine Science),
W77-07564 1015 2L

Glossary of Water Resource Terms,
W77-07613 1016 10C

THESIS EQUATION
Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

THIAMIN
Distribution and Ecological Significance of Vitamin B12 and Thiamin in Three Lakes, (In French),
W77-12334 1024 2H

THICKENING
Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

THICKET DREDGE
A New Model of Thicket Dredge, (In Russian),
W77-12347 1024 7B

THIN FILM CHEMISTRY
Treatment of Combined Sewer Overflows Via Thin Film Chemistry,
W77-07034 1014 5D

THIN-LAYER CHROMATOGRAPHIC TECHNIQUE
Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

THIN-LAYER CHROMATOGRAPHY
Lipids of Smittium Culisetae,
W77-02547 1005 5A

THINNING (TREES)
Snow Damage in Arizona Ponderosa Pine Stands,
W77-01949 1004 4A

THIOBACILLUS DENITRIFICANS
Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

THIOPHANATE-METHYL
The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

THIOUREAS
Method of Determining the Total Biochemical Oxygen Demand of Sewage with the Use of Various Nitrification Inhibitors, (In Russian),
W77-01579 1004 5A

THOMAS HILL RESERVOIR (MO)
The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

The Effect of a Thermal Effluent on the Benthos of Thomas Hill Reservoir, Missouri,
W77-05605 1012 5C

Cage Culture of Channel Catfish in a Heated Effluent from a Power Plant, Thomas Hill Reservoir,
W77-07101 1015 5C

Aspects of Reservoir-Power Station Interactions: Some Effects of Heat on Physico-Chemistry, Aufwuchs Ecology and Plankton Metabolism,
W77-07102 1015 5C

THOMPSON RIVER (BC)
Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

THOMPSONS CREEK (TX)
Flood Plain Information: Thompsons Creek and Tributaries, Bryan, Texas,
W77-07634 1016 4A

THORIUM
Method of Evaluating the Content of Natural Radioactive Isotopes of the Uranium and Thorium Series in Drinking Water and Food, (In Russian),
W77-02070 1004 5C

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
W77-03016 1006 5A

THORIUM-228
Content of Plutonium, Thorium and Protactinium in Sea Water and Recent Coral in the North Pacific,
W77-11527 1023 5A

THORNTHWAITE
The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

THREADFIN SHAD
Susceptibility of Threadfin Shad to Impingement,
W77-11643 1023 5C

THREE-DIMENSIONAL ANALYSIS
Deviations from the Theis Solution in Aquifers Undergoing Three-Dimensional Consolidation,
W77-05953 1012 2F

THREE-DIMENSIONAL FLOW
Theoretical Analysis of Fluid Flow and Energy Transport in Hydrothermal Systems,
W77-10861 1022 2A

THREE-DIMENSIONAL MODEL
Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

THREE-DIMENSIONAL MODELS
A Three-Dimensional Finite Element Ground Water Model,
W77-03109 1007 2F

Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

THREE FATHOM HARBOUR (NOVA SCOTIA)
Uptake and Retention of Kuwait Crude Oil and Its Effects on Oxygen Uptake by the Soft-Shell Clam, Mya Arenaria,
W77-07506 1015 5C

THREE-LAYER CIRCULATION
Three-Layer Circulations in Estuaries and Harbors,
W77-09723 1020 2L

THREE-SPINED STICKLEBACK
Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

THROMBOCYTES
The Response of Fish Blood Cells, Particularly Thrombocytes, to Decompression,
W77-07420 1015 5C

THROUGHFALL
Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

THUNDER BAY (ONT)
Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

THUNDER BAY (ONTARIO)
Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

THUNDERSTORMS
A Study of Some Effects of Vertical Shear on Thunderstorms,
W77-00168 1001 2B

The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

The Big Thompson Flood of 1976 in Colorado,
W77-04247 1009 2E

Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

Precipitation Trend and Storm Analysis in Colorado.
W77-09685 1020 2C

Isotopic, Crystal and Air Bubble Structures of Hailstones,
W77-10126 1021 2B

Characteristics of Rainfall Cell Patterns in the Southeast Coastal Plain Areas of the USA, and

THUNDERSTORMS

a Computer Simulation Model of Thunderstorm Rainfall,
W77-10435 1021 2B

Study of a Heavy Precipitation Occurrence in Redding, California,
W77-11050 1022 2B

THUNNUS
Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

TICINO RIVER (ITALY)
Observations on the Mycotic Flora in the Periphyton of the Ticino River, (In Italian),
W77-05971 1012 2I

TIDAL BORES
Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

TIDAL CANAL
Navajo Terminals, Inc v San Francisco Bay Conservation and Development Commission (Shoreline Regulatory Plan Did Not Constitute a Taking of Property).
W77-09565 1019 6E

TIDAL CURRENTS
Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

Documentation of Four Ocean-Related Computer Modules,
W77-04838 1010 5B

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

Tide Prints: Surface Tidal Currents in Puget Sound,
W77-11653 1023 2L

On the Calculation of Tidal Currents in Homogeneous Estuaries,
W77-12297 1024 2L

Electric Field Recording of Tidal Currents in the Strait of Magellan,
W77-12805 1024 2L

TIDAL EFFECTS
Sea Surface Temperature Fluctuations at Tidal Frequencies at Weather Ships Charlie and Delta,
W77-00137 1001 2L

Measurements of Estuary Dispersion Coefficients,
W77-00381 1001 5B

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

A Reconnaissance of the Recent Sediments of the Ranns of Kutch, India,
W77-03762 1008 2L

Marsh Gas from the Atlantic Coastal Plain,
W77-03913 1008 2L

Alternations of Flow Characteristics within Geothermal Areas by Tidal Forces,
W77-03915 1008 2L

Tidal Water Movements,
W77-04938 1010 2L

Pollution Susceptibility: An Environmental Parameter for Coastal Zone Management,
W77-07230 1015 5G

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

A Reconnaissance of the Hydrology of the Edisto and Ashepoo Estuaries, South Carolina,
W77-09076 1018 2L

Analytical Model of Dispersion in Tidal Fjords,
W77-10303 1021 5B

TIDAL ENERGY
Tidewater Power System,
W77-08022 1016 8C

TIDAL EXCHANGE
A Preliminary Tidal Exchange Experiment in Masset Inlet,
W77-01916 1004 2L

TIDAL FLOODS
People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

TIDAL INLETS
Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

TIDAL LAGOONS
An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

TIDAL MARSHES
Proximate Nutritive Value Changes During Decomposition of Salt Marsh Plants,
W77-00402 1001 5C

Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

Some Water Law Problems Associated with Estero Bay, Florida,
W77-01091 1003 6E

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

Biology of Blue-Green Algae of Tide Marshes,
W77-02446 1005 5C

The Metula Oil Spill,
W77-02679 1006 5C

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Patterns of Secondary Succession in a Mangrove Community, Tampa Bay, Florida,
W77-03947 1008 5G

Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

Photosynthate Distribution in Natural Stands of Salt Water Cordgrass,
W77-12173 1023 2I

TIDAL MODELS
Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

TIDAL POWERPLANTS
Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

Tidewater Power System,
W77-08022 1016 8C

Potential of Tidal and Gulf Stream Power Sources,
W77-11854 1023 3E

Wave and Tide Actuated Hydraulic Electrical Generating Apparatus,
W77-11933 1023 8C

TIDAL PRISMS
Tidal Prism - Inlet Area Relationships,
W77-00664 1002 2L

TIDAL RECORDS
Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

TIDAL STREAMS
Oxygen in a Tidal River: Low Tide Concentration Correlates Linearly with Location,
W77-02145 1005 2L

Oxygen-Sag in a Tidal River,
W77-10114 1021 5B

TIDAL WATERS
Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Storm Runoff Routing to a Tidal Outfall: A Case Study,
W77-00952 1002 4A

Tidelands Act; Powers and Regulations.
W77-01005 1002 6E

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

An Analysis of Salinity Variations within Great South Bay, New York,
W77-01149 1003 2L

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

The Tides of the East River, New York,
W77-01617 1004 2L

Measurements of Waves in Southampton Water and their Variation with the Velocity of the Tidal Current,
W77-03856 1008 2L

Numerical Tidal Model of Chesapeake Bay,
W77-05356 1011 2L

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Instability in Tidal Flow Computational Schemes,
W77-07548 1015 2L

Flood Plain Information: Northwest Stream Group, Stockton, California,
W77-07642 1016 4A

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

Submersible and Submerged Lands (State Ownership or Jurisdiction).
W77-10497 1021 6E

Blumenfeld v San Francisco Bay Conservation and Development Commission (California Statutes Granting Jurisdiction to Conservation Commission Should be Construed so as not to Defeat the Intent of the Legislature).
W77-11180 1022 6E

Atlantic City Electric Company v Bardin (State's Right to Grant and Set Consideration for Lands Held in Public Trust).
W77-11186 1022 6E

People v Texaco, Inc (County Regulation of Tidewater Bordering on or Lying Within its Boundaries).
W77-11204 1022 6E

Effects of Tidal Fluctuations of Salinity on Pericardial Fluid Composition of the American Oyster Crassostrea Virginica,
W77-12873 1024 5C

TIDE DRAINS

Performance and Evaluation of Combined Mole-Tile Drain System in Heavy Soils,
W77-00316 1001 4A

TIDELANDS

Public Lands (Leasing of Mineral Rights in State Owned Tidal and Submerged Lands).
W77-01105 1003 6E

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

TIDES

Trieste--Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

Vertical Diffusion Driven by Internal Waves in a Sill Fjord,
W77-00360 1001 2L

Tidal Prism - Inlet Area Relationships,
W77-00664 1002 2L

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Tide-Induced Residual Current-Verification of a Numerical Model,
W77-0959 1019 2L

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

The Tides of the East River, New York,
W77-01617 1004 2L

Characteristics of a Tide-Induced Estuarine Front,
W77-01619 1004 2L

Response of the Patuxent Estuary to a Winter Storm,
W77-01635 1004 2L

Notes on Tidal Inlets on Sandy Shores,
W77-02504 1005 2L

Effects of 40-Foot Charleston Harbor Project on Tides, Currents and Salinities; Hydraulic Model Investigation,
W77-02947 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 1, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study,
W77-02948 1006 8B

Numerical Analysis of Tidal Circulation for Long Beach Harbor; Report 3, Existing Conditions and Alternate Plans for Pier J Completion and Tanker Terminal Study with -82 Ft Channel,
W77-02949 1006 8B

Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida,
W77-03304 1007 2L

Tidal Currents and Estuarine-Type Circulation in Johnstone Strait, British Columbia,
W77-03846 1008 2L

Numerical Modeling of Tides in Hudson Bay,
W77-03985 1008 2L

Surf-Turbine Generating System,
W77-04954 1010 8C

Cotidal Charts for the Pacific Ocean Near Hawaii Using F-Plane Solutions,
W77-06321 1013 2L

The Stability During Many Years of the Mid-Tidal Shore at Penrhyn Bay, North Wales, and a Note on the Peat Beds at Rhos-on-Sea,
W77-07367 1015 2L

Predicting Changes in Tidal Regime: The Open Boundary Problem,
W77-07370 1015 8B

Tidal and Current Prediction for the Amazon's North Channel Using a Hydrodynamical-Numerical Model,
W77-07743 1016 2L

Storm Tide Frequency Analysis for the Coast of Georgia,
W77-08914 1018 2L

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

Ocean Tides and Weather-Induced Bottom Pressure Fluctuations in the Middle-Atlantic Bight,
W77-11610 1023 2L

Tide Prints: Surface Tidal Currents in Puget Sound,
W77-11653 1023 2L

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

TIDEWATER VIRGINIA

Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

TIFTON (GA)

Characteristics of Rainfall Cell Patterns in the Southeast Coastal Plain Areas of the USA, and a Computer Simulation Model of Thunderstorm Rainfall,
W77-10435 1021 2B

TILAPIA

Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

Feeding, Starvation and Weight Changes of Early Fish Larvae,
W77-05849 1012 5C

Chlorinated Hydrocarbon Residues in the Fish in Lake Tanganyika,
W77-05890 1012 5C

Intensive Polyculture of Fish in Freshwater Ponds. I. Substitution of Expensive Feeds by Liquid Cow Manure,
W77-10240 1021 5C

TILAPIA-GALILAEA

Food Selection in Tilapia Galilaea (Pices, Cichlidae) of Lake Tchad, (In French),
W77-04687 1010 2H

TILAPIA MOSSAMBICA

Biological Aquatic Weed Control by Fish in the Lower Sonoran Desert of California,
W77-11423 1022 4A

TILAPIA-NILOTICA

On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

TILE DRAINAGE

Tile Drainage in Bedded Soil or a Draw,
W77-05181 1011 4A

Shallow Subsurface Drainage-Field Performance,
W77-05441 1011 4A

Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

TILE DRAINS

Economics of Increased Mobility from Tile Drainage,
W77-00313 1001 3F

Automation of an Open-Ditch Irrigation Conveyance System Utilizing Tile Outlets,
W77-12781 1024 4A

TILES
Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

Automation of an Open-Ditch Irrigation Conveyance System Utilizing Tile Outlets,
W77-12781 1024 4A

TILL
Basal Till Fabrics of Modern Alpine Glaciers,
W77-09704 1020 2C

Influence of Long Term Tillage, Crop Rotation, and Soil Type Combinations on Corn Yield,
W77-09969 1020 3F

TILLAGE PRACTICES
Influence of Long Term Tillage, Crop Rotation, and Soil Type Combinations on Corn Yield,
W77-09969 1020 3F

Subsoil Chiseling and Slip Plowing Effects on Soil Properties and Wheat Grown on a Stratified Fine Sandy Soil,
W77-12178 1023 2G

Compatible Sediment Control Practices and Tillage Systems,
W77-12181 1023 4D

Corn-Soybean Tillage Systems: Erosion Control, Effects on Crop Production, Costs,
W77-12576 1024 3F

TIMBER MANAGEMENT
Environmental Pollution in the New Lead Belt, (Rann Utilization Experience, Case Study No. 2),
W77-02639 1006 5B

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

TIMBER PILES
Gowing V MC Candless (Crop Damage Resulting from Flooding of Obstructed Watercourse).
W77-00999 1002 6E

TIMBER PRODUCTS PROCESSING
Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

TIME
Why Simulation,
W77-04725 1010 2E

Time-Distribution of Storm Rainfall in Pennsylvania,
W77-07022 1014 2B

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

TIME-EXCESS TEMPERATURE STUDIES
Effects of Various Time-Excess Temperature Histories on Hatching Success of Blueback Herring, American Shad, and Striped Bass Eggs,
W77-05567 1011 5C

TIME-MEAN DRAG COEFFICIENT
Model Study of the Drag Coefficient of a Streambed Particle,
W77-00816 1002 2J

TIME OF TRAVEL (SEDIMENTS)
Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

TIME SERIES ANALYSIS
The Use of Stochastic Models in the Interpretation of HIstorical Data From Sewage Treatment Plants,
W77-00121 1001 5D

On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

Spectral Analysis of the Long-Term Oceanographic Time Series at Ocean Weather Station 'P',
W77-03843 1008 2L

Detection of Trends in Water Quality Data from Records with Dependent Observations,
W77-04753 1010 5A

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

An Evaluation of the Practicality and Complexity of Some Rainfall and Runoff Time Series Models,
W77-05179 1011 2A

Transient Finite Element Shallow Lake Circulation,
W77-05806 1012 2H

Time Resolution of the Hydrologic Time-Series Models,
W77-06013 1012 2E

Indirect Estimation of Hydrologic Parameters,
W77-06300 1013 2E

Autocorrelation Characteristics of Hydrometeorological Data of the United States,
W77-10805 1022 2B

A Recursive Approach to Time-Series Analysis for Multivariable Systems,
W77-10807 1022 5B

Analysis of the Temporal Behaviour of the Level of Lake Malawi,
W77-11565 1023 2H

Effect of Misestimating Harmonics in Periodic Hydrologic Parameters,
W77-12550 1024 2E

Stochastic Modeling of Hydrologic, Intermittent Daily Processes,
W77-12796 1024 2B

TIME-TREND CONCENTRATIONS (STREAM POLLUTANTS)
Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

TIMING
Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

TIMOTHY ROOTS
Dynamics of the Composition and the Qualities of Water-Soluble Organic Substance During the Composting of Clover and Timothy Roots, (In Russian),
W77-00062 1001 5B

TIMS FORD RESERVOIR (TENN)
Identification and Quantification of Water Quality Change Inducting Mechanisms in Stratified Reservoirs,
W77-02089 1005 5C

Processes of Dissolved Oxygen Depletion in Tims. Ford Reservoir,
W77-04327 1009 5C

TIN
Hygienic Substantiation of the Maximum Permissible Concentration of Tin Tributylmethacrylate in Water Bodies, (In Russian),
W77-03107 1007 5A

The Role of Tin in Bacterial Methylation of Mercury,
W77-03668 1008 5B

Heavy Metal Accumulation in Estuarine Sediments in a Historical Mining of Cornwall,
W77-04329 1009 5B

TIN ORGANIC COMPOUNDS
The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

TINTINNIDIUM-FLUVIATILE
Planktonic Protozoans of the Volga-Baltic Water System, (In Russian),
W77-06090 1012 5C

TIOGA LAKE (PENN)
Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Tioga Outlet Works, Tioga and Hammond Lakes, Susquehanna River Basin, Pennsylvania; Hydraulic Model Investigation,
W77-02956 1006 8B

Connecting Channel for Tioga and Hammond Lakes, Tioga River and Crooked Creek, Pennsylvania; Hydraulic Model Investigation,
W77-02961 1006 8B

TIOGA RIVER BASIN (PA-NY)
Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

TIPULA SPP
Contribution of Gut Contents to the Concentration and Body Burden of Elements in Tipula Spp. From a Spring-Fed Stream,
W77-11649 1023 5C

TISBE BULBISETOSA
Characteristics of Suspensions of Kuwait Oil and Corexit 7664 and their Short- and Long-Term Effects on Tisbe Bulbisetosa (Copepoda: Harpacticoida),
W77-12872 1024 5B

TISSUE ACCUMULATION
Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

TISSUE ANALYSIS
Persistence of Polychlorinated Biphenyls in the Hard-Clam (Mercenaria Mercenaria) and the Effect Upon the Distribution of these Pollutants in the Estuarine Environment,
W77-02703 1006 5C

Dieldrin in the Diet of Channel Catfish (Ictalurus Punctatus): Uptake and Effect on Growth,
W77-03034 1006 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Biologic Half-Life of Endrin in Channel Catfish Tissue,
W77-06432 1013 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

Equilibrium Between Uptake and Elimination of Dieldrin by Channel Catfish, Ictalurus punctatus,
W77-10955 1022 5C

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

TISSUE ANALYSIS (FISH)
Residues of Chlorinated Hydrocarbons in Marine Organisms in Relation to Size and Ecological Parameters, 1. PCB, DDT, DDE and DDD in Fishes and Molluscs from the English Channel,
W77-05917 1012 5C

TISSUE CHANGES
Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

TISSUE CONCENTRATION
Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Heavy Metals in the Gastropod Mollusc Haliotis Tuberculata (L.),
W77-10256 1021 5C

TISSUE MERCURY CONCENTRATIONS
Mercury Accumulation by Largemouth Bass (Micropterus salmoides) in Recently Impounded Reservoirs,
W77-09667 1020 5C

TISSUE RESIDUES
Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

TISZA RIVER (HUNGARY)
Multipurpose Development on the Tisza River.
W77-03957 1008 4A

A New Method for Modelling Monthly Discharge Series,
W77-10425 1021 4A

TISZA VALLEY (HUNGARY)
Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

TISZAKECSKE REGION (HUNGARY)
Hydrogeological and Geophysical Investigations of a Geothermal Anomaly in Hungary; II. Geothermal Flow System in the Tiszakecske Region,
W77-01436 1003 4B

TITANIUM
Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

TITLE EXTINGUISHMENT
State v. Matzen (Use of Historical Maps to Settle Claims to Accretion Lands).
W77-08139 1017 6E

TITLE III (WATER RESOURCES PLANNING ACT)
Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

TIULKA
Some Factors Influencing Early Survival and Abundance of Clupeonella in the Sea of Azov,
W77-05827 1012 5C

TLM (MEDIAN TOLERANCE LEVEL)
Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

TNT
The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

TNT WASTES
Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

TNTCC
The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

TOADS
Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

TOBACCO
Comparison of Simulated and Measured Nitrogen Accumulation in Burley Tobacco,
W77-12122 1023 3F

TOBAGO
Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

TOCKS ISLAND DAM (PENNA)
Mathematical Models,
W77-04523 1009 6A

TOCKS ISLAND RESERVOIR PROJECT
Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

TOKYO
Increase of Sediment Transport Due to Large-Scale Urbanization,
W77-02790 1006 4C

TOKYO BAY
Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

TOLEDO AREA (OHIO)
Stage, Discharge and Quality Changes in a Water Table Aquifer Related to Urbanization,
W77-05335 1011 4C

TOLEDO (OHIO)
Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

TOLERANCE
Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Tolerance of Selected Fish Species to Atmospheric Gas Supersaturation,
W77-07431 1015 5C

TOLLS
Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

TOLUENE
A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

TOLUENESULFONIC-ACID
Macrophytes of Limnetic Habitats and Their Reaction Upon P-Toluene Sulfonic Acid in the Substrate: I. On the Tolerance of Marsh and Water Plants of P-Toluene Sulfonic Acid, (In German),
W77-05099 1010 5C

TOMATOES
Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

An Evaluation of Sulfur-Coated Urea as a Preplant Total Season Nitrogen Supply for Trellised Tomatoes,
W77-10283 1021 3F

The Irrigation of Winter Tomatoes in the Arava,
W77-11068 1022 3F

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

TOMBIGBEE RIVER
Entrance to Upstream Approach Canal, Gainesville Lock, Tombigbee River, Mississippi and Alabama; Hydraulic Model Investigation,
W77-10047 1020 8B

TOMBIGBEE RIVER VALLEY WATER MANAGEMENT DISTRICT
State V Corps of Engineers (Cost/Benefit Analysis Under NEPA and the Flood Control Act).
W77-08400 1017 6E

TOMPKINS COUNTY (NY)
Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

TOOL JOINT HARD FACINGS
Better Protection for Casing and Tool Joints,
W77-08315 1017 8G

TOOL JOINTS
Metallurgical Developments Aid Bits, Tool Joints,
W77-12670 1024 8G

TOP SOIL
The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

TOPMINNOW
The Distribution of Two Mosquito-Larvivorous Fishes, Gambusia Affinis and Oryzias Latipes, in the Tokyo Metropolitan Area, (In Japanese),
W77-02297 1005 5G

TOPOGRAPHIC FEATURES
Atlantic Offshore Users Workshop May 19-21, 1977, Newark, Delaware.
W77-12914 1024 6A

TOPOGRAPHIC MAPPING
Environmental Evaluation of Water Resources Development,
W77-02828 1006 6G

TOPOGRAPHY
Steinbeck V Philip Stenger Sons, Inc (Alteration of Higher Topography by Land Developer Causing Artificial Drainage onto Lower Property--The Taking Issue).
W77-01049 1002 2E

Flow and Bed Topography in Curved Open Channels,
W77-03084 1007 8B

A Nonlinear Kinematic Wave Model for Watershed Surface Runoff,
W77-05140 1011 2E

Constructional Shelf Topography, Diamond Shoals, North Carolina,
W77-06316 1013 2L

Ridges on Antarctic Ice Rises,
W77-09120 1019 2C

On the Causes of Local Climatic Anomalies, With Special Reference to Precipitation in Washington State,
W77-09355 1019 2B

Ecological and Topographic Series of Vegetation of Erosion Forms of Relief in the Northeast of the Chernigov Territory, (In Ukranian),
W77-09622 1020 2I

TOPOLOGY
On Determining Distances Through Stream Networks,
W77-11225 1022 4A

TOPSOIL
The Effects of Drying of the Topsoil and of Micronutrients in the Subsoil on Micronutrient Uptake by an Intermittently Defoilated Ryegrass,
W77-09314 1019 2I

The Effects of Water Content of the Topsoil on Micronutrient Availability and Uptake in a Siliceous Sandy Soil,
W77-09930 1020 2G

TORNADOES
Cloud Interaction and the Formation of the 15 June 1973 Tornado in the FACE Mesonetwork,
W77-01700 1004 2B

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

TORONTO (ONTARIO)
Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

TORULOPSIS
Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

TOTAL BACTERIA COUNTS
The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

TOTAL COLIFORMS
Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

TOTAL DISSOLVED GAS
Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

TOTAL DISSOLVED SOLIDS
Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

TOTAL INORGANIC CARBON
Effects of pH and Inorganic Carbon Concentrations Upon Competition Between Anabaena flos-aquae and Selenastrum capricornutum,
W77-08200 1017 5C

TOTAL MERCURY ANALYSES
Fate and Biological Effects of Mercury Introduced into Artificial Streams,
W77-08757 1018 5C

TOTAL NITROGEN DETERMINATION
A Semiautomated Procedure for Total Nitrogen in Plant and Soil Samples,
W77-09294 1019 2K

The Determination of Total Nitrogen in Sediments Using an Induction Furnace,
W77-12313 1024 5A

TOTAL ORGANIC CARBON
Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

On the Determination of COD, BOD, and TOC in the Filtrate of Suspensions from Pulp, Paper, and Waste Paper (Uber die Bestimmung von CSB, BSB und TOC am Filtrat von Suspensionen aus Halbstoff, Papier und Altpapier),
W77-05517 1011 5A

Addition of Powdered Activated Carbon to Activated Sludge Reactors,
W77-05723 1012 5D

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

The Design of a Fully Automatic Liquid Injection Apparatus for Use on a Carbon Analyser,
W77-10209 1021 5A

TOTAL ORGANIC CARBON ANALYZER
Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

TOTAL ORGANIC CONCENTRATIONS
Reactions in the Aqueous Environment of Low Molecular Weight Organic Molecules,
W77-08754 1018 5B

TOTAL OXYGEN DEMAND
Metering Total Oxygen Demand,
W77-12416 1024 5A

TOTAL RESIDUAL CHLORINATION
Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

TOTAL SUSPENDED MATTER
Time-Depth Variations in Tidal Flux of Suspended Matter in the Saint Lawrence Estuary,
W77-03091 1007 2L

TOTAL SUSPENDED SOLIDS
Fishery Waste Effluents: A Method to Determine Relationships between Chemical Oxygen Demand and Residue,
W77-05862 1012 5A

TOTAL WATERSHED RESPONSE
Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

TOURISM
Crowding and Visitor Conflict on the Bois Brule River,
W77-11865 1023 6B

TOWER BIOLOGY TREATMENT
Tall Order in Waste Treatment,
W77-03602 1008 5D

TOWN BRANCH (NB)
Special Flood Hazard Information Report: North Fork Big Nemaha River and Town Branch, Tecumseh, Nebraska.
W77-04218 1009 4A

TOWNSVILLE (QLD)
The Composition of Rainwater at Two Sites Near Townsville, Qld. (Australia),
W77-03279 1007 2K

TOXAPHENE
Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Influence of Solvents on the Pesticide Inhibition of ATPase Activities in Fish and Insect Tissue Homogenates,
W77-07847 1016 5C

A Quantitative Method for Toxaphene by GC-CI-MS Specific Ion Monitoring,
W77-09633 1020 5A

Pesticide Levels in Sera of Moribund Channel Catfish from a Continuous Winter Mortality,
W77-11330 1022 5C

A Note on Toxaphene in Environmental Samples from the Chesapeake Bay Region,
W77-12062 1023 5B

TOXIC ALGAL BLOOMS
Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

TOXIC MECHANISM
The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

TOXIC MECHANISMS
The Effect of Ammonia Exposure on Gill Structure of the Rainbow Trout (Salmo Gairdneri),
W77-04056 1008 5C

TOXIC METALS
Toxicology of Metals - Volume I,
W77-11316 1022 5C

The Distribution of Toxic Metals in Marine Ecosystems as a Result of Sewage Disposal and Natural Processes,
W77-12253 1024 5B

TOXIC RESPONSE
JP-4 and JP-9 Fuel Toxicity Studies Using Fresh Water Fish and Aufwuchs, Annual Report,
W77-10952 1022 5C

TOXIC SPONGE EXTRACT
Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

TOXIC SUBSTANCES
Compilation of State Data for Eight Selected Toxic Substances, Vol. III, Annotated Bibliography of State Data and Information Sources,
W77-01494 1003 5A

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Compilation of State Data for Eight Selected Toxic Substances, Vol. V, Monitoring Program Capability, Descriptor Tables,
W77-02641 1006 5G

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

TOXIC SUBSTANCES CONTROL ACT
Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

TOXIC UNITS
Toxicity Index for Permits,
W77-01321 1003 5A

TOXIC WASTE DISPOSAL
Toxic Waste Disposal,
W77-07209 1015 5G

TOXICANTS
Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

The Effects of Methoxychlor on Riffle Invertebrate Populations and Communities,
W77-06614 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

TOXICITY
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

Plant Uptake of Heavy Metals from Sewage Sludge Applied to Land,
W77-00028 1001 5D

Evaluation of the Toxicity of Substances Being Released into Water Bodies for the Early Development of Fish, (In Russian),
W77-00189 1001 5C

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

A Rapid Method for Measuring the Acute Toxicity of Pulp Mill Effluents and Other Toxicants to Salmonid Fish at Ambient Room Temperature,
W77-00336 1001 5C

Identification of Two Chlorinated Guaiacols in Kraft Bleaching Wastewaters,
W77-00459 1001 5A

National Conference on Polychlorinated Biphenyls (November 19-21, 1975, Chicago, Illinois), Proceedings.
W77-00460 1001 5B

Chlorinated Guaiacols in Bleachery Wastes: Comments on a Paper by Leach and Thakore,
W77-00467 1001 5A

(Chlorinated Guaiacols in Bleachery Wastes--) Response to the Comments of I. H. Rogers,
W77-00468 1001 5A

Toxicity of Paraquat to Paracalliope Fluviatilis (Amphipoda),
W77-00666 1002 5C

The Role of Sediment as a Modifying Factor in Pesticide-Algae Interactions,
W77-00713 1002 5C

Chemical Characteristics and Acute Toxicity of Foam on Two Aerated Lagoons,
W77-00752 1002 5C

Seasonal and Laboratory Variations in the Health of Grass Shrimp Palaemonetes Pugio: Dodecyl Sodium Sulfate Bioassay,
W77-00884 1002 5C

The Relationship of Malathion and its Metabolites to Fish Poisoning,
W77-00885 1002 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Toxicity of Endrin and an Endrin-Methyl Parathion Formulation to Largemouth Bass Fingerlings,
W77-01066 1003 5C

Kepone: Hazard to Aquatic Organisms,
W77-01235 1003 5C

Investigation of Selected Potential Environmental Contaminants, Chlorinated Paraffins,
W77-01238 1003 5C

On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Wasserorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

Modified Bioassay Procedure for Toxic Effluents,
W77-01243 1003 5A

Application of 24-Hour Postexposure Observation to Acute Toxicity Studies with Invertebrates,
W77-01252 1003 5C

Comparative Mortality Studies on Biomphalaria Glabrata (Mollusca: Pulmonata) Exposed to Copper Internally and Externally,
W77-01254 1003 5C

Acute Toxicities of Crude Oils and Oil-Dispersant Mixtures to Red Sea Fishes and Invertebrates,
W77-01256 1003 5C

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in Water-Determination of Components and Toxicity of the System-II, Solution by Computer,
W77-01260 1003 5B

Some Effects of Kuwait Crude Oil on the Limpet, Patella Vulgata,
W77-01275 1003 5C

Workshop on Toxicity to Biota of Metal Forms in Natural Water.
W77-01295 1003 5C

Complexation of Metals in Natural Water,
W77-01296 1003 5C

Zinc Speciation and Toxicity to Fishes,
W77-01298 1003 5C

Structure-Activity Relations and the Toxicity of Trace Elements to Aquatic Biota,
W77-01299 1003 5C

Metal Speciation in Aquatic Environments,
W77-01300 1003 5C

The Multiple Toxicity of Certain Heavy Metals: Additive Actions and Interactions,
W77-01303 1003 5C

Toxicity Relationships to Copper Forms in Natural Waters,
W77-01304 1003 5C

The Need to Establish Heavy Metal Standards on the Basis of Dissolved Metals,
W77-01305 1003 5A

Aspects of Heavy Metals Toxicity in Fresh Waters,
W77-01306 1003 5C

Copper Toxicity to Phytoplankton, as Affected by Organic Ligands, Other Cations and Inherent Tolerance of Algae to Copper,
W77-01307 1003 5C

Potential Roles of Metal-Ligands in the Marine Environment,
W77-01308 1003 5B

Symposium on Structure-Activity Correlations in Studies of Toxicity and Bioconcentration with Aquatic Organisms.
W77-01310 1003 5C

Surfactant Structure and Aquatic Toxicity,
W77-01311 1003 5A

Structure-Activity Relationships in Fish Toxicology,
W77-01313 1003 5C

Structure-Activity Relationships Applied,
W77-01314 1003 5C

Structure-Activity Relationships of DDT Analogs in a Non-Target Organism. Lethal and Sublethal Effects of Brook Trout Fingerlings,
W77-01315 1003 5C

Statistical Properties of Environmental Data: Considerations for Bioaccumulation and Toxicity Studies of Pollutants,
W77-01316 1003 5C

An Approach to the Study of Multiple Toxicity,
W77-01318 1003 5C

A Comparison of Methods for the Analysis of the Relationship Between Chemical and Biological Properties of Chemicals,
W77-01319 1003 5A

Toxicity Index for Permits,
W77-01321 1003 5A

Calculation of Partition Coefficients Useful in the Evaluation of the Relative Hazards of Various Chemicals in the Environment,
W77-01322 1003 5C

The Effect of Two Commercial Herbicides on the Settlement, Germination and Growth of Enteromorpha,
W77-01503 1003 5C

Culture Studies on the Effects from Borate Pollution on the Growth of Marine Phytoplankters,
W77-01506 1003 5C

Toxicity of 30-Minute Exposures of Residual Chlorine to the Copepods Limnocalanus Macrurus and Cyclops Bicuspidatus Thomasi,
W77-01507 1003 5C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Hygienic Evaluation of the State of Protection of a Water Body from Pollution in the Region of an Industrial Complex, (In Russian),
W77-01555 1004 5D

Researches on the Biodegradability and Toxicity of Some Pollutants Existing in Waste Waters Discharged by the Petrochemical Industry, (In Hungarian),
W77-01581 1004 5C

Hygienic Study of the Toxic Properties of Methanol-Containing Reclaimed Water, (In Russian),
W77-01602 1004 5C

Toxic Constituents in Woodroom Effluents,
W77-01667 1004 5B

Chemistry of West Coast Groundwood Effluent Toxicity,
W77-01668 1004 5C

On-Line Surveillance of Industrial Effluents Employing Chemical-Physical Methods of Fish as Sensors,
W77-01823 1004 5A

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

Statement of Concerns of the Lake Michigan Toxic Substances Committee Related to Polychlorinated Biphenyls,
W77-02038 1004 5C

A Bioassay to Assess Wastewater Toxicity to Aerobic Biological Treatment,
W77-02081 1005 5D

Effects of Selected Chemicals on Movement, Growth and Survival of Certain Aquatic Animal Life,
W77-02084 1005 5C

Fate and Effects of Oil Pollutants in Extremely Cold Marine Environments,
W77-02210 1005 5C

Toxicological Characteristics of Acute Phenol Intoxication in Some Freshwater Worms, (In Russian),
W77-02237 1005 5C

Studies on the Tolerance of the Guppy, Poecilia Reticulata (Peters), a Natural Enemy of Mosquito Larvae, to the Septic Pollution of Water, (In Japanese),
W77-02238 1005 5C

Dynamics of the Content of Some Organic Toxic Substances in Plants Irrigated with Effluents of the Coal-Tar Chemical Industry, (In Russian),
W77-02263 1005 5C

Toxicity, Uptake and Survey Studies of Boron in the Marine Environment,
W77-02565 1005 5C

Experimental Nitrite Toxicity in Rainbow Trout and Chinook Salmon,
W77-02581 1006 5C

Comparative Methylation Chemistry of Platinum, Palladium, Lead, and Manganese,
W77-02623 1006 5A

The Environmental Fate of Selected Poly-Nuclear Aromatic Hydrocarbons,
W77-02625 1006 5B

Literature Study of Selected Potential Environmental Contaminants, Antimony and Its Compounds,
W77-02629 1006 5C

Residual Toxicity of Ozonized Seawater to Oyster Larvae,
W77-02630 1006 5C

Cadmium in the Environment - III: A Toxicological and Epidemiological Appraisal,
W77-02633 1006 5B

Investigation of Selected Potential Environmental Contaminants: Haloethers,
W77-02643 1006 5C

Molybdenum: A Toxcological Appraisal,
W77-02647 1006 5C

The Toxicity of Selected Chemicals Used in Power Generating Stations to Hawaiian Fishes,
W77-02666 1006 5C

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VI Turnover of Absorbed Phenol in Goldfish,
W77-02701 1006 5C

Studies on the Metabolism of Chlorophenols in Fish-VII Sulfate Conjugation of Phenol and PCP By Fish Livers,
W77-02702 1006 5C

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Aqueous Ammonia Equilibrium Calculations: Effects of PH and Temperature,
W77-02720 1006 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Environmental Impact of Chemicals,
W77-02836 1006 5G

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

1974 - A Year of Transition,
W77-02840 1006 5G

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

Study About the Toxic Action of Zinc on One Summer Old Carp: I. Lethal Concentrations, (In Bulgarian),
W77-02896 1006 5C

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Temperature-Induced Changes in Acute Toxicity of Zinc to Atlantic Salmon (Salmo Salar),
W77-03049 1006 5C

Permissible Level of Benzo(A)Plyrene in Water Bodies, (In Russian),
W77-03117 1007 5B

Effect of Zinc-Coated Culverts on Vertebrate and Invertebrate Fauna in Selected Maine Streams,
W77-03170 1007 5C

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

The Effect of Detergents on Larval Development of a Crab,
W77-03189 1007 5C

Influence of Illumination on Phytotoxicity of Crude Oil,
W77-03193 1007 5C

Toxicity of Crude Oils and a Dispersant to the Stony Coral Madracis Mirabilis,
W77-03196 1007 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Aqueous Leachate from Western Red Cedar: Effects on Some Aquatic Organisms,
W77-03799 1008 5C

Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Current Problems of Hygienic Standardization of New Chemical Substances, (In Russian),
W77-04015 1008 5C

Acute Toxicity of Residual Chlorine in Wastewater to Coho Salmon (Oncorhynchus Kisutch) and Some Resultant Hematologic Changes,
W77-04027 1008 5C

The Effect of Dissolved Petroleum Products on Some of the Aspects of Carbohydrate Metabolism in Fishes and Invertebrates,
W77-04030 1008 5C

Long-Term Effects of Methylmercuric Chloride on Three Generations of Brook Trout: Toxicity Accumulation, Distribution and Elimination,
W77-04031 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Effect of Heavy Metals on Hatching of Brine Shrimp Eggs,
W77-04047 1008 5C

Deleterious Effects of Corexit 9527 on Fertilization and Development,
W77-04050 1008 5C

Toxicological Effects of Diethylnitrosamine (DENA) in Guppies (Lebistes Reticulatus), (In German),
W77-04100 1008 5C

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

Oil Bioassays with the American Oyster, Crassostrea virginica (Gmelin),
W77-04189 1009 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Effects of Mercury on Survival and Development of the Larval Grass Shrimp Palaemonetes Vulgaris,
W77-04331 1009 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Data to Substantiate the Permissible Concentration of Fenuron in Water Bodies, (In Russian),
W77-04407 1009 5A

Environmental Toxicity of Aquatic Radionuclides: Models and Mechanisms.
W77-04508 1009 5C

Biological Action of Nitrates in Drinking Water, (In Russian),
W77-04560 1009 5A

Data on Substantiation of the Maximum Allowable Concentration of Yalan in Water Bodies, (In Russian),
W77-04599 1009 5C

Effects of Energy-Related Activities on the Atlantic Continental Shelf,
W77-04934 1010 6G

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

Algological Observations in the Iddefjord and the Adjacent Fjord Areas, S.E. Norway, (In Norwegian),
W77-05196 1011 5C

Ethanolamine Toxicity in Aquatic Invertebrates (In Romanian),
W77-05454 1011 5C

Study of the Toxicity of Rivers in the Genoa Province in Relation to Marine Biomass, (In French),
W77-05478 1011 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-05490 1011 5G

Toxicological Characteristics and Symptom-Complex of Acute Phenol Intoxication of Certain Freshwater Crustaceans and Mollusks, (In Russian),
W77-05607 1012 5C

Aquatic Environmental Quality: Toxicology,
W77-05608 1012 5C

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Uptake and Storage of 14C Labeled Endrin by the Livers and Brains of Pesticide Susceptible and Resistant Mosquitofish,
W77-05619 1012 5C

The Toxicity of Benomyl, Thiophanate-Methyl, and BCM to Four Fresh Water Organisms,
W77-05622 1012 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Toxicity of Malachite Green to Cultured American Lobster Larvae,
W77-05625 1012 5C

Mercury in the Surficial Sediments of Lake Erie,
W77-05628 1012 5B

Prolonged Oral Administration of Methyl Mercury Chloride to Rainbow Trout (Salmo Gairdneri) Fingerlings,
W77-05629 1012 5C

Acute Toxicity of Methyl Mercury Chloride and Mercuric Chloride for Rainbow Trout (Salmo Gairdneri) Fry and Fingerlings,
W77-05630 1012 5C

Effects of Parasiticides on Nitrification,
W77-05632 1012 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Toxicity of the Insecticide Methoxychlor to the Dungeness Crab Cancer Magister,
W77-05639 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Fish Toxicity with Specific Reference to the Pulp and Paper Industry,
W77-05712 1012 5C

Changes in Periphyton Communities Under the Effect of Dichlorfos,
W77-05858 1012 5C

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Toxicity of Diquat and Cutrine to Fingerling Brown Trout,
W77-05866 1012 5C

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

The Performance of Activated Sludge Plants Compared with the Results of Various Bacterial Toxicity Tests - A Study with 3, 5-Dichlorophenol,
W77-05886 1012 5D

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Effects of Low Contrations of Manganous Sulfate on Eggs and Fry of Rainbow Trout,
W77-05891 1012 5C

Plexiglas Cages for the Study of Biological Effects of Industrial Effluents,
W77-05893 1012 5C

Data for Substantiating the Permissible Level of Boron Content in Drinking Water, (In Russian),
W77-05898 1012 5C

Effect of Size or Age of Goldfish and Fathead Minnows on Use of Pentachlorophenol as a Reference Toxicant,
W77-05901 1012 5C

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Ingestion of Suspended Oil Particles and the Influences on Mortality in the Molluscan Larvae, (In Japanese),
W77-05909 1012 5C

Synergistic Effects of Cadmium and Salinity Combined with Constant and Cycling Temperatures on the Larval Development of Two Estuarine Crab Species,
W77-05912 1012 5C

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

Cadmium Distribution in Forest Ecosystems Irrigated with Treated Municipal Waste Water and Sludge,
W77-06178 1013 5B

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-06255 1013 5C

Reduction of Aquatic Toxicity of Linear Alkylbenzene Sulfonate (LAS) by Biodegradation,
W77-06256 1013 5C

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

The Usefulness of Lynmaea Stagnalis as a Biological Indicator in Toxicological Bio-Assay (Model Substance Alpha-HCH),
W77-06262 1013 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

Policy Regarding the use of Copper Compounds as Aquatic Herbicides in Maine.
W77-06366 1013 5G

Effects of Leached Mirex on Experimental Communities of Estuarine Animals,
W77-06376 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

The Quantitative Cytochemical Effects of Three Metal Ions on a Lysosomal Hydrolase of a Hydroid,
W77-06403 1013 5C

Response of Protozoan Communities Exposed to Chlorine Stress,
W77-06409 1013 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Toxicity of the Herbicides Dinoseb and Picloram to Cutthroat (Salmo Clarki) and Lake Trout (Salvelinus Namaycush),
W77-06412 1013 5C

Ecological and Nutritional Studies on Dinobryon Ehrenb.: Seasonal Periodicity and the Phosphate Toxicity Problems,
W77-06415 1013 5C

Use of the Asiatic Clam, Corbicula leana Prime, in Toxicity Tests,
W77-06423 1013 5A

Development and Evaluation of On-site Toxicity Test Procedures for Fishery Investigations,
W77-06428 1013 5A

Dieldrin-Induced Destruction of Marine Algal Cells with Concomitant Decrease in Size of Survivors and their Progeny,
W77-06468 1013 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

Effects of Field Applications of the Herbicide Diquat and Dichlobenil on Amphibians,
W77-06492 1013 5C

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

Effect of Malachite Green and Formalin on the Survival of Largemouth Bass Eggs and Fry,
W77-06612 1014 5C

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

Toxicity of Fluoride to Brown Trout Fry (Salmo trutta),
W77-06628 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

The Influence of Acrolein and Hydrocryle on the Development Dynamics of Aquatic Bacteria,
W77-06690 1014 5C

Toxicity of Rotenone to Fish in Standardized Laboratory Tests,
W77-06748 1014 5C

Median Tolerance Limits of Some Chemicals to the Fresh Water Fish Cyprinus-Carpio,
W77-06780 1014 5C

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

Experimental Substantiation of Maximum Permissible Propachlor (Ramrod) Concentrations in Water, (In Russian),
W77-07133 1015 5A

The Ecological Chemical and Histopathological Evaluation of an Oil Spill Site, Part I: Ecological Studies,
W77-07178 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms I. Lethal Concentrations of Oil-Spill Emulsifiers for Some Marine Phytoplankton, (In Japanese),
W77-07181 1015 5C

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Apparent Potentiation of the Cotton Defoliant DEF by Methyl Parathion in Mosquitofish,
W77-07204 1015 5C

Fate of the Organophosphate Insecticide Parathion in the Freshwater Invertebrates,
W77-07285 1015 5C

Investigations on the Influence of Crude Oil on Survival and Oxygen Consumption of Idotea baltica and Gammarus salinus,
W77-07310 1015 5C

Hygienic Standardization of Disodium Salts of Meta-and Para-Diisopropylbenzene in Water Bodies, (In Russian),
W77-07590 1015 5C

Experimental Study of Acute Toxicity of Salts of Cobalt, Antimony, Strontium and Silver Crustaceans and Their Larvae and in Some Teleosts, (In French),
W77-07728 1016 5C

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Effects of Mirex and Methoxychlor on Striped Mullet, Mugil Cephalus L.,
W77-07825 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, To Cadmium. I. Introduction and Experimental Design,
W77-07831 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium. II. Uptake of Cadmium by Organs and Tissues,
W77-07832 1016 5C

Protective Effect of Chloride on Nitrite Toxicity to Coho Salmon (Oncorhynchus Kisutch),
W77-07840 1016 5C

Effects of Inorganic Complexing on the Toxicity of Copper to Daphnia Magna,
W77-07842 1016 5C

Impact of Toxic Clones of Blue-Green Algae on Water Quality as Related to Aquatic Animals,
W77-08104 1017 5C

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Removing Soluble Metals from Waste Water,
W77-08591 1017 5D

Experimental Data on the Regulation of 1,2-Dibromopropane in Reservoir Water, (In Russian),
W77-08718 1018 5C

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Ecology of Toxicity in Marine Sponges,
W77-08793 1018 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

Methoxychlor Residue Studies in Caged and Wild Fish from the Athabasca River, Alberta, Following a Single Application of Blackfly Larvicide,
W77-08797 1018 5C

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

The Effects of Three Herbicides on Larvae of the Phantom Midge, Chaoborus Punctipennis (SAY),
W77-09139 1019 5C

The Acute Toxicity of Four Herbicides to 0-4 Hour Nauplii of the Copepod Cyclops Vernalis Fisher,
W77-09142 1019 5C

An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: I Accumulation of Mercury in the Organs, (In French),
W77-09320 1019 5C

Study of Mercury Intoxication in a Teleost Fish, Anguilla Anguilla: II. Effect on the Regulation of Osmolarity, (In French),
W77-09321 1019 5C

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

Some Dissenting Remarks on 'Deleterious Effects of Corexit 9527 on Fertilization and Development',
W77-09593 1019 5C

The Toxicity of Sodium Pentachlorophenolate for Three Species of Decapod Crustaceans and Their Larvae,
W77-09663 1020 5C

The Effect of Parasitism on the Toxicity of Cadmium to the Three-spined Stickleback, Gasterosteus aculeatus L.,
W77-09666 1020 5C

Toxicity of Hydrogen Sulfide to Various Life History Stages of Bluegill (Lepomis macrochirus),
W77-09668 1020 5C

The Toxicity of Malathion and Its Hydrolysis Products to the Eastern Mudminnow, Umbra pygmaea (DeKay),
W77-09670 1020 5C

Toxic Action of Several Lethal Concentrations of an Anionic Detergent on the Gills of the Brown Trout (Salmo trutta L.),
W77-09672 1020 5C

Ecological Responses of Phytoplankton on Chronic Oil Pollution,
W77-09674 1020 5C

Note on the Effects of Lead on Oxygen Production of Several Littoral Seaweeds of the Adriatic Sea,
W77-09682 1020 5C

Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food,
W77-09683 1020 5C

Effluents of Kraft Mills and Their Toxicity for Hydrobionts (Stochnye vody sul'fat-tsellyuloznykh zavodov i ikh toksichnost' dlya gidrobiontov)),
W77-09739 1020 5C

Toxicity of 3-trifluoromethyl-4-nitrophenol (TFM), 2',5-dichloro-4'-nitrosalicylanilide (Bayer 73), and a 98:2 Mixture to Fingerlings of Seven Fish Species and to Eggs and Fry of Coho Salmon,
W77-09764 1020 5C

The Freshwater Mussel (Anodonta SP.) as an Indicator of Environmental Levels of 3-Trifluoromethyl-4-Nitrophenol (TFM),
W77-09765 1020 5C

Evaluation of a Laboratory Microcosm for Study of Toxic Substances in the Environment: Final Technical Report, July 1, 1973-December 31, 1975,
W77-09769 1020 5A

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Effects of Exposure to Heavy Metals on Selected Fresh Water Fish. Toxicity of Copper, Cadmium, Chromium and Lead to Eggs and Fry of Seven Fish Species,
W77-09784 1020 5C

Acute Toxic Effects of Petroleum Refinery Wastewaters on Redear Sunfish,
W77-09786 1020 5C

A Study of the Effects of Copper Applied Continuously and Discontinuously to Specimens of Mytilus Edulis (L.) Exposed to Steady and Fluctuating Salinity Levels,
W77-10239 1021 5C

Effects of Polluting Substances on Enzymes of Aquatic Organisms,
W77-10247 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Fundamental Studies on the Influence of Oil Pollution Upon Marine Organisms-III, Effects of Oil-Spill Emulsifiers and Surfactants on the Growth of Porphyra-Laver, (In Japanese),
W77-10254 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

Activity of Intestinal Aryl Hydrocarbon Hydroxylase in Guinea Pigs Fed High Element Containing Sludge-Grown Cabbage,
W77-10576 1021 5C

Foam Breaking--A Key Process in Detoxification of Kraft Mill Effluents by Foam Separation,
W77-10693 1021 5D

Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

Daphnia Pulex Pulls Its Weight in Pulp Mill Toxicity Tests,
W77-10718 1021 5A

A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

Toxicity of Alkyldinitrophenols to Some Aquatic Organisms,
W77-10738 1021 5C

The Toxicity to Fish of Herbicides Recommended for Weed Control in the Rewa,
W77-10745 1021 5C

Survey of Industrial Processing Data. Task II--Pollution Potential of Polybrominated Biphenyls,
W77-10750 1021 5B

Acute Toxicity of Selected Organic Compounds, To Fathead Minnows,
W77-10934 1022 5C

Initial Scientific and Minieconomic Review of Monuron, Substitute Chemical Program,
W77-10936 1022 5C

The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

Assays of Toxic Pollutants by Fish Blood,
W77-10942 1022 5C

The Sediment Environment of Port Valdez, Alaska: The Effect of Oil on This Ecosystem,
W77-10944 1022 5C

Ammonia Toxicity,
W77-10946 1022 5C

Toxicity of Copper to Daphnids in Reconstituted and Natural Waters,
W77-10948 1022 5C

Toxicology of Cyclotrimethylenetrinitramine (RDX): Distribution and Metabolism in the Rate and the Miniature Swine,
W77-10950 1022 5C

Environmental Quality Research, Fish and Aufwuchs Bioassay, Annual Report,
W77-10951 1022 5C

Effects of Pollutants on Embryos and Larvae of Amphibian Species, Second Annual Report,
W77-10956 1022 5C

Heptachlor in Relation to Man and the Environment,
W77-10957 1022 5B

Toxicity of DDT Food and Water Exposure to Fathead Minnows,
W77-10960 1022 5C

General Test Conditions and Procedures for Chlorine Toxicity Tests with Estuarine and Marine Macroinvertebrates and Fish,
W77-11243 1022 5A

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

Responses of Early Life History Stages of the Striped Bass, Morone Saxatilis to Chlorination,
W77-11246 1022 5C

Toxicity and Uptake of Kepone in Marine Unicellular Algae,
W77-11272 1022 5C

Physiological Responses of Estuarine Organisms to Chlorine,
W77-11283 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Survival of Two Species of Amphipods in Aqueous Extracts of Petroleum Oils,
W77-11289 1022 5C

Hydrolytic Activation and Detoxication of 2,4-Dichloro-phenoxyacetic Acid Esters in Mosquitofish,
W77-11290 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Seawater Inhibition of Nitrite Toxicity to Chinook Salmon,
W77-11294 1022 5C

Chlorine Toxicity to Eggs and Larvae of Five Chesapeake Bay Fishes,
W77-11299 1022 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM), 2', 5-Dichloro-4'-Nitrosalicylanilide (Bayer 73), and a 98:2 Mixture as Lampricides in Laboratory Studies,
W77-11313 1022 5C

Toxicity of the Molluscicide Bayer 73 and Residue Dynamics of Bayer 2353 in Aquatic Invertebrates,
W77-11314 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

Kepone (Trade Name): Chronic Effects on Embryo, Fry, Juvenile, and Adult Sheepshead Minnows (Cyprinodon Variegatus),
W77-11319 1022 5C

Acute Toxicity of Kepone to Four Estuarine Animals,
W77-11320 1022 5C

Acute Toxicity of the Actellic Biocide to Fish, (In Bohemian),
W77-11321 1022 5C

Identification of Ammonia as the Toxic Principle of Red Tide in Noctiluca Milaris, (In Japanese),
W77-11323 1022 5A

Acute Toxicity of Water-Borne Dimethylnitrosamine (DMN) to Fundulus Heteroclitus (L.),
W77-11327 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

Blood PO2, PCO2, and pH Changes in Brook Trout (Salvelinus Fontinalis) Exposed to Sublethal Levels of Acidity,
W77-11340 1022 5C

The Effects of Season and Acute Sub-Lethal Exposure on Survival Times of Brook Trout at Low pH,
W77-11341 1022 5C

Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments,
W77-11347 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part II - Effects on Respiration Rate,
W77-11359 1022 5C

Toxic Interaction of Mixtures of Two Coal Conversion Effluent Components (Resorcinol and 6-Methylquinoline) to Daphnia Magna,
W77-11528 1023 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

Methylmercury: Teratogenic and Lethal Effects in Frog Embryos,
W77-11536 1023 5C

The Potential Toxicity and Bioaccumulation in Aquatic Systems of Trace Elements Present in Aqueous Coal Conversion Effluents,
W77-11540 1023 5C

Behavior of Benzidine and Other Aromatic Amines in Aerobic Wastewater Treatment,
W77-11733 1023 5B

Disinfection Efficiency and Residual Toxicity of Several Wastewater Disinfectants: Volume I - Grandville, Michigan,
W77-11762 1023 5D

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

Therapeutic Treatment for Epibiotic Fouling on Dungeness Crab (Cancer Magister) Larvae Reared in the Laboratory,
W77-12011 1023 5C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Diel Variations in Sensitivity of Fishes to Potentially Lethal Stimuli,
W77-12023 1023 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

Survival Time and Lethal Exposure Time for the Blacknose Dace Exposed to Free Chlorine and Chloramines,
W77-12040 1023 5C

Chlorine Dissipation and Toxicity Presence of Nitrogenous Compounds,
W77-12042 1023 5C

Long-Term Cadmium Stress in the Cunner, Tautogolabrus Adspersus,
W77-12048 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

Acute Toxicological Response of the Crayfish (Orconectes limosus) to Mercury,
W77-12056 1023 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

Acute Toxic Effects of Two Lampricides to Twenty-one Freshwater Invertebrates,
W77-12071 1023 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

Effects of Salinity on the Eggs and Fry of the Golden Shiner and Goldfish,
W77-12187 1023 5C

Toxicity Bioassays with Periphyton Communities: Design of Experimental Streams,
W77-12188 1023 5A

Determination of Organochlorine Pesticides in the Tissue of the Black Mullet (Mugil cephalus) and the Silver Mullet (Mugil curema),
W77-12197 1023 5B

The Effects of DDT, DDE and Their Sulfonated Derivatives on Eggshell Formation in the Mallard Duck,
W77-12200 1023 5C

Comparative Sensitivity of Eggs, Larvae, and Adults of the Estuarine Teleosts, Fundulus heteroclitus and Menidia menidia to Cadmium,
W77-12201 1023 5C

Interactive Effect of Chromium Compounds and a Fungal Parasite on Carp Eggs,
W77-12202 1023 5C

The Toxicity of Endrin and the Effect of Pretreatment of Phenobarbital and Hexobarbital on Mortality in Four Fresh Water Fishes,
W77-12204 1023 5C

Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants,
W77-12205 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

Vergleichende Prufungen der Fischtoxizitaten an Elritzen Forellen und Goldorfen (Comparative Tests on Toxicity to Fish Using Minnows, Trout, and Golden Orfe), (In German),
W77-12212 1023 5A

Polychlorinated Biphenyl Compounds (PCB's) and Fishery Resources,
W77-12213 1023 5C

Effects of Various Classes of Herbicides on Four Species of Algae,
W77-12217 1023 5C

Effects of Water-Soluble Components of Petroleum Oils and Aromatic Hydrocarbons on Barnacle Larvae,
W77-12218 1023 5C

Sealed-Jar Bioassays for Pulpmill Effluent Toxicity: Effects of Fish Species and Temperature,
W77-12221 1023 5A

Acute Toxicity of Lignosulphonates on Rainbow Trout (Salmo Gairdneri),
W77-12222 1023 5C

The Effects of the Water Soluble Fractions of No. 2 Fuel Oil on the Survival and Behavior of Coastal and Oceanic Zooplankton,
W77-12227 1023 5C

Behavioural, Haematological and Histological Studies on Acute Toxicity of Bis (tri-n-butyltin) Oxide on Salmo Gairdneri Richardson and Tilapia Rendalli Boulenger,
W77-12235 1023 5C

Toxicity of 2,3,7,8,-Tetrachlorodibenzo-P-Dioxin in Larval and Adult Forms of Rana Catesbeiana,
W77-12239 1023 5C

A 96-Hour Sediment Bioassay of Duluth and Superior Harbor Basins (Minnesota) Using Hexagenia Limbata, Asellus Communis, Daphnia Magna, and Pimephales Promelas as Test Organisms,
W77-12240 1023 5A

The Influence of Larval Lampricide (TFM: 3-Trifluormethyl-4-Nitrophenol) on Growth and Production of Two Species of Aquatic Macrophytes, Elodea Canadensis (Michx.) Planchon and Myriophyllum Spicatum L.,
W77-12245 1023 5C

Polychlorinated Biphenyl Inhibition of Marine Phytoplankton Photosynthesis in the Northern Adriatic Sea,
W77-12246 1023 5C

The Influence of Cations on Chlorine Toxicity,
W77-12249 1023 5C

Long-Term Biotoxicity of Chlorine Species to Copepod Populations,
W77-12260 1024 5C

Oxygen Requirements of Embryos and Larvae of the Largemouth Bass, Micropterus Salmoides (Lacepede),
W77-12275 1024 5C

Protozoa as Test Organisms for the Evaluation of the Properties of Effluents (Prosteishie mikroorganizmy kak test-ob"ekty dlya otsenki svoistv stochnykh vod),
W77-12349 1024 5A

Copper Toxicity in the Pacific Oyster Crassostrea gigas,
W77-12638 1024 5C

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

Effects of Sublethal Concentrations of Cadmium on Adult Palaemonetes Pugio Under Static and Flow-Through Conditions,
W77-12641 1024 5C

Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus punctatus) Liver,
W77-12647 1024 5C

The Effect of Exposure to a Subacute Concentration of Parathion on the General Locomotor Behavior of the Goldfish,
W77-12648 1024 5C

Effects of Fuel Oil on Sea Catfish: Feeding Activity and Cardiac Responses,
W77-12649 1024 5C

The Short-Term Toxicity of Some Feed Additives to Different Freshwater Organisms,
W77-12651 1024 5C

The Toxicity of Ammonium Molybdate to Marine Invertebrates,
W77-12653 1024 5C

Toxic Chemicals in Canadian Fish-Eating Birds,
W77-12655 1024 5B

Toxicity and Accumulation of the Insecticide Imidan in Freshwater Invertebrates and Fishes,
W77-12661 1024 5C

Survival and Growth of Bivalve Larvae Under Heavy-Metal Stress,
W77-12663 1024 5C

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

Heart Transaminase in the Rock Crab, Cancer Irroratus, Exposed to Cadmium Salts,
W77-12855 1024 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

Review Paper: The Toxicity of Pulp and Paper Mill Effluents and Corresponding Measurement Procedures,
W77-12865 1024 5C

A Preliminary Study of the Toxic Effects of Irradiated Vs. Non-Irradiated Water Soluble Fractions of No. 2 Fuel Oil,
W77-12869 1024 5C

Studies on the Toxicity of Cadmium to the Three-Spined Stickleback Gasterosteus Aculeatus L.,
W77-12874 1024 5C

Criteria Document for PCB's,
W77-12882 1024 5A

The Influence of Aeration in the Determination of Toxicity for Fish, (In German),
W77-12968 1024 5C

An Express Method for Establishing Minimum Permissible Concentrations for Waters Used for Commercial Fishing, (In Russian),
W77-12979 1024 5A

Conditions of the Emergence of Soil Toxicity During Application of Straw and Flooding, (In Russian),
W77-12983 1024 2G

TOXICITY BIOASSAY

The Effect of Ammonia Exposure on Gill Structure of the Rainbow Trout (Salmo Gairdneri),
W77-04056 1008 5C

TOXICITY TESTING

Chamber for Holding Aquatic Microinvertebrates During Toxicity Tests in a Flow-Through Diluter System,
W77-12185 1023 5A

TOXICOLOGY

Aspects of Heavy Metals Toxicity in Fresh Waters,
W77-01306 1003 5C

TOXINS

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

Ocean Dumping; Proposed Site Designation.
W77-00985 1002 5G

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

The Pathology of Pesticide Poisoning,
W77-02694 1006 5C

Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Toxicity of Water-Soluble Fractions of Four Test Oils for the Polychaetous Annelids, Neanthes Arenaceodentata and Capitella Capitata,
W77-02716 1006 5C

Papers of a Seminar on Early Warning Systems for Toxic Substances, Conference Report,
W77-02835 1006 5A

Environmental Impact of Chemicals,
W77-02836 1006 5G

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

Establishing Environmental Priorities for Synthetic Organic Chemicals: Focusing on the Next PCBs,
W77-02839 1006 5A

Review of Health/Environmental Systems with Potential Early Warning Applications,
W77-02841 1006 5A

A Research Program to Acquire and Analyze Information on Chemicals that Impact on Man and His Environment,
W77-02842 1006 5A

A Cost-Risk-Benefit Analysis of Toxic Substances,
W77-02844 1006 5G

Public Interest Methods for Assessing Chemical Hazards,
W77-02846 1006 5C

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

Legislation and Laws Concerning Early Warning Systems for Toxic Substances,
W77-02850 1006 5G

Rapid Detection of Bacterial Endotoxins in Drinking Water and Renovated Waste Water,
W77-03474 1007 5A

Levels of Arsenic and Selenium in the Great Lakes Region,
W77-04574 1009 5B

Aquatic Environmental Quality: Toxicology,
W77-05608 1012 5C

Evaluation of a Toxicant on the Metabolism of Model Stream Communities,
W77-05637 1012 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Variations in the Hepatopancreatic a-Amylase Activity in Fishes Exposed to Some Industrial Pollutants,
W77-05642 1012 5C

Studies on the Toxicity of Copper Sulphate to Stone Loach Noemacheilus Barbatulus (L.) in Hard Water,
W77-05645 1012 5C

Observations on the Tolerance of the Isopod Asellus Meridianus Rac. to Copper and Lead,
W77-05646 1012 5C

The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

Occurrence of Toxic Bivalves in Association with the Bloom of Gonyaulax sp. in Owase Bay,
W77-07119 1015 5C

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

A Pneumatic Dosing Apparatus for Flow-Through Bioassays,
W77-08763 1018 5A

Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

Toxic Pollutant Effluent Standards for Aldrin/Dieldrin, DDT, Endrin, and Toxaphene,
W77-08983 1018 5G

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

Immediate Behavioral Reactions of Blacknose Dace, Rhinichthys atratulus, to Domestic Sewage and its Toxic Constituents,
W77-09669 1020 5C

Estimation of Permissible Concentrations of Pollutants for Continuous Exposure,
W77-09788 1020 5A

Fatty Acids as Ichthyotoxic Constituents of a Green Alga Cheatomorpha minima,
W77-10248 1021 5C

The Effect of Chlorine Toxicity on Certain Blood Parameters of Adult Rainbow Trout (Salmo Gairdneri),
W77-11286 1022 5C

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Cyanide Mobility in Soils,
W77-11619 1023 5B

Polychlorinated Biphenyl Compounds (PCB's) and Fishery Resources,
W77-12213 1023 5C

Toxicity of Chlorpyrifos to Mallard Ducks,
W77-12845 1024 5C

Factors Influencing the Toxicity and Animal Susceptibility of Anabaena Flos-aquae (Cyanophyta) Blooms,
W77-12848 1024 5C

TOXINS

Cell Division of Gyrodinium Sp. and Mitotic Delay Induced by Causal Substances of Algal Tumor and Carcinogens,
W77-12868 1024 5C

TRACE ELEMENTS

Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Multielement and Chlorinated Hydrocarbon Analysis of Municipal Sewage Sludges of American Cities,
W77-00598 1002 5A

Process for Gasifying Carbonaceous Solids and Removing Toxic Constituents from Aqueous Effluents,
W77-00751 1002 5D

Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Environmental Assessment of the Alaskan Continental Shelf. Volume 9. Chemistry and Microbiology.
W77-00909 1002 6G

Structure-Activity Relations and the Toxicity of Trace Elements to Aquatic Biota,
W77-01299 1003 5C

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Evaluation Strategies of Metal Pollution in Oceans,
W77-01875 1004 5A

Trace Elements in Soils of the Dnieper-Bug Liman, (In Ukranian),
W77-02258 1005 2G

Trace Elements in the Environment of Some Goiter Regions of the Tashkent Oblast, (In Russian),
W77-02388 1005 5G

Concentrations and Concentration Factors of Heavy Metals in Brown Algae,
W77-02698 1006 5A

Heavy Metals in Lakes of the Coeur d'Alene River Valley, Idaho,
W77-03207 1007 5B

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Iron Transport in a Lake Tahoe Tributary and its Potential Influence upon Phytoplankton Growth,
W77-04022 1008 5B

Experimental and Field Studies in Hygienic Assessment of Drinking Water Containing Boron, (In Russian),
W77-04033 1008 5G

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Trace Element Content in the Bottom Sediments and Water of the Rivers Przemsza and Vistula in the Section of its Most Intense Pollution, (In Polish),
W77-04079 1008 5A

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

4-Aminobiphenyl, 2- Naphthylamine, and Analogs: Analytical Properties and Trace Analysis in Five Substrates,
W77-04718 1010 5A

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Concentration and Distribution of Selected Trace Metals in the Maumee River Basin, Ohio, Indiana, and Michigan,
W77-05671 1012 5B

Gas Chromatographic Determination of Trace Amounts of Sulfur Compounds in Industrial Effluents,
W77-05681 1012 5A

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Effects of Trace Elements on Urease Activity in Soils,
W77-06165 1013 5C

The Determination of Trace Metals in Cladophora Glomerata – C. Glomerata as a Potential Biological Monitor,
W77-06257 1013 5C

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Methodological Considerations in Western Lake Superior Water-Sediment Exchange Studies of Some Trace Elements,
W77-06489 1013 5A

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Concentration and Determination of Trace Organic Pollutants in Water,
W77-07098 1014 5A

Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

Effects of Trace Elements on Nitrogen Mineralization in Soils,
W77-07864 1016 5B

The Effect of Different Flocculants on the Elimination of Trace Elements and Polycylic Hydrocarbons in the Water Purification Process, (In German),
W77-08256 1017 5D

Development of a Column Chromatography Method for Field of Pre-Concentration of Trace Metals with Application to the Haw-Cape Fear Rivers, N.C.,
W77-08299 1017 5A

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
W77-08787 1018 5A

Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

An Investigation of the Role of Organic Materials in Freshwater Systems,
W77-09618 1020 5C

Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W77-09625 1020 5C

Influence of Ionic Strength and Inorganic Complex Formation on the Sorption of Trace Amounts of CD by Montmorillonite,
W77-09658 1020 5B

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Geochemical Controls on Trace Element Concentrations in Natural Waters of a Proposed Coal Ash Landfill Site,
W77-09928 1020 5B

Heavy Metals in Chesapeake Bay Sediments,
W77-10174 1021 5B

A Trace Element Study in the Thames Estuary,
W77-10391 1021 5C

Trace Elements in Wastewater,
W77-10577 1021 5D

Maryland Research Finding Guidelines for Sludge Use.
W77-10580 1021 5E

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Workshop on Environmental Research for Transuranic Elements.
W77-11128 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Uptake of Plutonium and Other Nuclear Wastes by Plankton,
W77-11287 1022 5C

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

Dynamics of Some Trace Elements in Organs and Tissues of the Rudd,
W77-11342 1022 5B

Trace Elements in Acartia Clausi from Elefsis Bay of the Upper Saronikos Gulf, Greece,
W77-11521 1023 5C

The Potential Toxicity and Bioaccumulation in Aquatic Systems of Trace Elements Present in Aqueous Coal Conversion Effluents,
W77-11540 1023 5C

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

Contribution of Gut Contents to the Concentration and Body Burden of Elements in Tipula Spp. From a Spring-Fed Stream,
W77-11649 1023 5C

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

Trace Metals in Open Water Disposal of Dredged Material,
W77-11780 1023 5E

Potential Trace Element Emissions from the Gasification of Illinois Coals,
W77-11827 1023 5A

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

Solubility and Availability of Cadmium in Cadmium Sludge Amended Soil,
W77-12144 1023 5B

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

The Trace Element Composition of Mine Waters, (In Russian),
W77-12969 1024 5A

TRACE HYDROCARBON ANALYSIS

Trace Hydrocarbon Analysis: The National Bureau of Standards, Prince William Sound/Northeastern Gulf of Alaska, Baseline Study,
W77-02628 1006 5A

TRACE METALS

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study,
W77-02217 1005 5B

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Atmospheric Trace Metals Over the New York Bight,
W77-04195 1009 5B

Trace Metals in Mussels from the N.W. Mediterranean,
W77-06479 1013 5A

Development of a Column Chromatography Method for Field of Pre-Concentration of Trace Metals with Application to the Haw-Cape Fear Rivers, N.C.,
W77-08299 1017 5A

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

Atmospheric Enhancement of Metal Deposition in Adirondack Lake Sediments,
W77-12270 1024 5A

TRACER MEASUREMENTS

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

TRACER TECHNIQUES

Soil Moisture and Irrigation Studies, II. Proceedings of a Panel.
W77-01735 1004 2G

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

TRACERS

Stochastic Characteristics of Sediment Motions,
W77-01140 1003 2J

The Use of A Specific Ion Electrode for Determination of Bromide in Soils,
W77-02100 1005 2G

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

A Study of Mixing Characteristics of Sewage Stabilization Ponds with Radioactive Tracers,
W77-03461 1007 5D

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Antimycin: Uptake, Distribution, and Elimination in Brown Bullheads (Ictalurus Nebulosus),
W77-04342 1009 5C

Plutonium-237 and -246: Their Production and Use as Gamma Tracers in Research on Plutonium Kinetics in an Aquatic Consumer,
W77-04513 1009 5C

On the Precision of Salt Dilution Gauging,
W77-04875 1010 2E

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Use of the Radioisotopic Sand Tracer (RIST) System,
W77-05809 1012 2L

An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

Retention and Excretion of 203HG-Labelled Methylmercury in Rainbow Trout,
W77-06480 1013 5C

In Vivo Accumulation of Radioactive Polonium by the Giant Kelp Macrocystis pyrifera,
W77-06490 1013 5C

The Accumulation of Organic Mercury from Sea Water by the Plaice, Pleuronectes platessa L.,
W77-06607 1014 5C

Investigation of Flushing Time in the Lafayette River, Norfolk, Virginia,
W77-06881 1014 2L

Reaeration Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive

Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Role of Oligochaetes in the Circulation of Water and Solutes Across the Mud-Water Interface,
W77-07508 1015 5C

Phosphorus Regeneration by Natural Populations of Limnetic Zooplankton,
W77-07972 1016 5C

Fate of Labeled n-Alkanes in the Blue Crab and Stripped Mullet,
W77-08764 1018 5C

Studies of the Mixing of Coastal Waters in Liverpool Bay Using Dissolved Silicate as a Tracer,
W77-09347 1019 2L

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

Lead and Freshwater Fishes: Part 2--Ionic Lead Accumulation,
W77-09779 1020 5C

Hydrodynamic Dispersion in Porous Materials,
W77-10131 1021 2G

Changes in the Activity of Epiphytic Bacteria of Elodea canadensis and Chara vulgaris Following Treatment with the Herbicide, Paraquat,
W77-11273 1022 5C

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

Accumulation of 14C-1-Naphthalene by an Oceanic and an Estuarine Copepod During Long-Term Exposure to Low-Level Concentrations,
W77-12859 1024 5B

TRACES

Biosynthesis of Organic Arsenic Compounds in Brown Trout (Salmo Trutta),
W77-02719 1006 5C

TRACK AUTORADIOGRAPHY

Algal Sedimentation: The Cause of a Diatom-Blue-Green Succession,
W77-07464 1015 5C

TRACKING TECHNIQUES

A Laboratory Model Ecosystem as an Element in Early-Warning Systems for Toxic Substances,
W77-02848 1006 5A

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

Application of Digital Modelling to the Prediction of Radioisotope Migration in Groundwater,
W77-06981 1014 5B

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

TRACTIVE FORCES

Integral-Equation Analysis of Flows Over Eroding Beds,
W77-00682 1002 2J

Towards a Routine Test for the Assessment of the Critical Tractive Forces of Cohesive Soils,
W77-05440 1011 2J

TRADE-OFFS

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

TRADE-OFFS (ENVIRONMENT)

Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

TRADEOFFS

Incommensurables and Tradeoffs in Water Resources Planning,
W77-10844 1022 6B

TRAIL RIVER (NWT)

Community and Species Responses of Chironomidae (Diptera) to Contamination of Fresh Waters by Crude Oil and Petroleum Products with Special Reference to the Trail River, Northwest Territories,
W77-06270 1013 5C

TRAINING

Education and Traning in Water Resources Planning,
W77-01344 1003 6B

Water Treatment Plant Processes and Operations,
W77-06198 1013 5D

TRAINING MANUAL

Analysis and Control of Thermal Pollution (178) Training Manual,
W77-02632 1006 5B

TRAINING MANUALS

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

TRAINING PROGRAMS

Analysis and Control of Thermal Pollution (178) Training Manual,
W77-02632 1006 5B

TRAJECTORY FORECAST

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

TRAMPLING

Observations on a Peat Bog's Ability to Withstand Increasing Public Pressure,
W77-07139 1015 5C

TRANS-ALASKA PIPELINE

Icings Along the Trans-Alaska Pipeline Route,
W77-05741 1012 2C

TRANS-ALASKA PIPELINE (ALAS)

Channel Erosion Surveys Along Taps Route, Alaska, 1975,
W77-00433 1001 2J

TRANS-ALASKA PIPELINE SYSTEM

Oil Spill Prevention Measures for the Trans-Alaska Pipeline System,
W77-00203 1001 5G

TRANSCARPATHIA (USSR)

Effectiveness of Continuous Chlorination of Well Water by Dosage Cartridges in Transcarpathia, (In Russian),
W77-02256 1005 5F

TRANSDUCERS

Line Status Transducer,
W77-00738 1002 8C

TRANSFER

Ship-to-Shore Sewage Hose Handling Tests,
W77-03364 1007 5D

Diffusion Coefficient of Oxygen in Microbial Aggregates,
W77-04689 1010 5D

Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

TRANSFER FACTORS (HYDROLOGIC)

Lake St. Clair Hydrologic Transfer Factors.
W77-06879 1014 2H

TRANSFERENCE (MEMBRANE PROCESSES)

Transference: A Comprehensive Parameter Governing Permeation of Solutes Through Membranes,
W77-08231 1017 3A

TRANSFORMATION MODEL

Linear Models for Groundwater Management,
W77-01180 1003 4B

TRANSFORMATION (WAVE ENERGY)

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

TRANSFORMATIONS

Flood Analysis by Smemax Transformation,
W77-05360 1011 2E

TRANSIENT FINITE ELEMENT

Transient Finite Element Shallow Lake Circulation,
W77-05806 1012 2H

TRANSIENT PLUG-FLOW MODEL

The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

TRANSITION ENERGIES

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

TRANSITION FLOW

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

Performance Characteristics of a Grassed-Waterway Transition,
W77-08849 1018 4D

TRANSITION FUNCTION

A Practical Methodology for River Quality Simulation Through the Stage-Wise Generation of Transition Function,
W77-05257 1011 5G

TRANSITION PROBABILITIES
Reservoir Yield Using TPM Method,
W77-04505 1009 3B

TRANSJOEN LAKE (NORWAY)
Transjoen, A Groundwater Influenced Lake with Special Redox and Sulphate Conditions,
W77-09031 1018 2H

TRANSLOCATION
Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

Role of Oligochaetes in the Circulation of Water and Solutes Across the Mud-Water Interface,
W77-07508 1015 5C

Utilization of Sedimentary Ammonia by Potamogeton Nodosus and Scirpus,
W77-11479 1022 5C

Regulation of Grain Yield by Photosynthesis in Maize Subjected to a Water Deficiency,
W77-12841 1024 3F

TRANSMISSION SPECTROSCOPY
Transmission Spectroscopy Examinations of Natural Waters-C. Ultraviolet Spectral Characteristics of the Transition From Terrestrial Humus to Marine Yellow Substance,
W77-09945 1020 5A

TRANSMISSION TOWERS
Nonaxial Uplift Tests on Straight and Belled Auger Model Footings,
W77-01683 1004 8G

TRANSMISSIVITY
Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

New Instrument Expands Water Well Technology,
W77-10521 1021 8G

Pumping Tests Provide Useful Data, Part II,
W77-10530 1021 8B

Estimation of Transmissivity and Permeability in Swedish Bedrock,
W77-11607 1023 2F

TRANSMISSOMETERS
Sub-Thermocline Biomass Concentration Detected by Transmissometer in Lake Superior,
W77-07447 1015 5C

TRANSMITTANCE
Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

TRANSNATIONAL POLLUTION
Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

TRANSPIRATION
Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Thermal Disturbances of Wheat Water Metabolism in Models of Natural Meteorological Complexes, (In Russian),
W77-00755 1002 3F

The Movement of Snow-Water Through Small Plant-Soil Systems in the Medicine Bow Mountains, Wyoming,
W77-01812 1004 2D

Relative Importance of Soil Resistance and Plant Resistance in Root Water Absorption,
W77-02118 1005 2D

Effect of Abscisic Acid at Different Levels of Soil Water Potential on the Transpiration of Zea Mays,
W77-02121 1005 3B

Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

A Comparative Study of the Effect of Soil Moisture on the Growth and Transpiration of Certain Poplar Forms, (In Bulgarian),
W77-02886 1006 2I

Comparative Photosynthetic Production of Mojave Desert Shrubs,
W77-03141 1007 2D

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

Evapotranspiration Reduction by Field Geometry Effects,
W77-03169 1007 2D

The Regulation of Transpiration Expenditure of Moisture by Plants with the Aid of Antitranspirants, (In Russian),
W77-03475 1007 3B

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-I. Computer Model and Its Evaluation Using Wind-Tunnel Experiments,
W77-03757 1008 2D

Evaporative Cooling of a Partially-Wet and Transpiring Leaf-II. Simulated Effect of Variations in Environmental Conditions, Leaf Properties, and Surface Water Characteristics,
W77-03758 1008 2D

Evapotranspiration--Some Growth Areas,
W77-04777 1010 2D

Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

Water Regime of Central Asian Desert Plants, (In Russian),
W77-06150 1013 2D

Aspects of the Daily and Seasonal Course of Transpiration Intensity in Meadow Plants, (In Russian),
W77-08709 1018 2D

Transpiration Intensity of Meadow Plants, (In Russian),
W77-08714 1018 2D

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

Water Exchange of Juicy Fruits of Trees and Bushes, (In Russian),
W77-09611 1020 2D

A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

Soils Infiltration and Evaporation of Wastewater by Aerobic Processes,
W77-10628 1021 5D

Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

Effect of Abscisic Acid on the Transpiration of Zea Mays Under Different Levels of Soil Water Potential,
W77-11094 1022 2D

Irrigation and Nitrogen Studies in S.23 Ryegrass Grown for Seed 2. Crop transpiration and soil-water status,
W77-11121 1022 3F

Estimating Evaporation and Transpiration from a Row Crop During Incomplete Cover,
W77-11947 1023 3F

Water Transport in Wheat Plants in the Field,
W77-11949 1023 3F

Chloride Accumulation Near Corn Roots Under Different Transpiration, Soil Moisture, and Soil Salinity Regimes,
W77-12171 1023 5B

Field Studies of the Conductance of Wheat Leaves and Transpiration,
W77-12175 1023 3F

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

TRANSPIRATION CONTROL
The Regulation of Transpiration Expenditure of Moisture by Plants with the Aid of Antitranspirants, (In Russian),
W77-03475 1007 3B

Augmenting Summer Streamflow by Use of a Silicone Antitranspirant,
W77-09126 1019 3B

Effect of Increasing Foliage Reflectance on the CO2 Uptake and Transpiration Resistance of a Grain Sorghum Crop,
W77-09942 1020 2D

TRANSPIRATION INTENSITY
Aspects of the Daily and Seasonal Course of Transpiration Intensity in Meadow Plants, (In Russian),
W77-08709 1018 2D

TRANSPIRATION PROCESS
Sap Stream Velocity as an Indicator of the Transpirational Process,
W77-10976 1022 2D

TRANSPIRING LEAF
Evaporative Cooling of a Partially-Wet and Transpiring Leaf-II. Simulated Effect of Variations in Environmental Conditions, Leaf Properties, and Surface Water Characteristics,
W77-03758 1008 2D

TRANSPORT
The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

TRANSPORT DEPLETION
Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

TRANSPORT KINETIC MODEL (PLANTS)
A Transport Kinetic Concept for Ion Uptake by Plants, III. Test of the Concept by Results from Water Culture and Pot Experiments,
W77-09315 1019 2I

TRANSPORT MODELS
Finite-State Models of Transport Phenomena in Hydrologic Systems,
W77-02865 1006 2F

TRANSPORT PATHWAYS
Transport Pathways of Polychlorinated Biphenyls in Atlantic Water,
W77-06469 1013 5B

TRANSPORT PROCESSES
Mathematical Modeling of Transport Processes in Aquatic Systems,
W77-11786 1023 5B

TRANSPORT RATES
Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

TRANSPORTATION
Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Miller Anti-Pollution Act of 1971 (Absolute Liability of Petroleum Carrier).
W77-01123 1003 6E

The Department of Transportation - Use of Multi-Objective Planning,
W77-01158 1003 6B

System for Evaluation of the Hazards of Bulk Water Transportation of Industrial Chemicals,
W77-02206 1005 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Hydrology and Environmental Aspects of Erie Canal (1817-99),
W77-03334 1007 8B

Water Transportation Service.
W77-03725 1008 6E

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

Oceanographic Commission,
W77-04359 1009 6E

Legislative Developments--Deepwater Port Act of 1974,
W77-05056 1010 6E

Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

Amend the Merchant Marine Act of 1920 (Hearings on S 2422 to Include the Virgin Islands Within the Scope of the Act With Respect to Transportation of Oil and Oil Products).
W77-08982 1018 6E

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

The Evaluation of the Test Procedure for Hazardous Binary Combinations of Materials in Marine Transportation,
W77-09236 1019 5G

Corps Games in Mid-America,
W77-11473 1022 6E

TRANSPORTATION WATER POLLUTION SOURCES
Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

TRANSURANIC ELEMENTS
Workshop on Environmental Research for Transuranic Elements.
W77-11128 1022 5C

TRANSURANICS
The Distribution of Transuranic Elements in a Freshwater Pond Ecosystem,
W77-04510 1009 5C

Transuranic Studies in the Marine Environment,
W77-04521 1009 5C

TRANSVAAL
Escom Pioneers Dry Cooling,
W77-01467 1003 3E

The Cooling Water Equation,
W77-01468 1003 6D

Proposed Pipeline System Will Link Water Schemes DWA's R24 Million Balancing Act.
W77-10069 1020 8B

TRANSVERSE MIXING
Transverse Mixing in Natural Channels,
W77-02313 1005 2E

TRAP EFFICIENCY
Trap-Efficiency Investigation Bernalillo Floodwater Retarding Reservoir No. 1 (Piedra Lisa Arroyo) Near Bernalillo, New Mexico, Water Years 1956-1974,
W77-08741 1018 4D

Callahan Reservoir: I. Sediment and Nutrient Trap Efficiency,
W77-12149 1023 5G

TRAP RESPONSES
Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

TRAPA-NATANS
Some Aspects of the Chemical Composition of Trapa Natans L. in Lake Maggiore (Italy), Especially Manganese and Iron, (In French),
W77-02250 1005 5C

TRAPPING
Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

TRASH RACKS
Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VI. Gates, Stop Logs, and Trashracks,
W77-10135 1021 8C

Behavior of Auxiliary Intake of Ramganga Dam at Low Levels,
W77-11823 1023 8B

TRAVEL-COST METHOD
Estimating Net Benefits of Recreation Under Conditions of Excess Demand,
W77-03964 1008 6D

TRAVEL TIME
Value of Time in Recreation Benefit Studies,
W77-00710 1002 6B

Overland-Flow Travel Time Versus Reynolds Number,
W77-05149 1011 2E

Time of Travel of Solutes in the East Fork Trinity River, November 1975; and Elm Fork Trinity River, December 1975; Trinity River Basin, Texas,
W77-08472 1017 7C

Time-of-Travel Study, Black River from Lyons Falls to Dexter, New York,
W77-08747 1018 4A

Solute Travel Times to Wells,
W77-09042 1018 5B

Isochrones of Travel Time and Distribution of Flood Storage from a Tracer Study on a Small Watershed,
W77-11216 1022 2A

TRAVELING SPRINKLER
Traveling Irrigation Sprinkler,
W77-09811 1020 3F

TRAVERTINE
The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

TRAVIS COUNTY (TEX)
Wildlife Management by Habitat Units--A Preliminary Plan of Action,
W77-08426 1017 4A

TREATIES
Model Water Resources Program,
W77-01079 1003 6E

A Closer Look at Some Issues for Genera-Oceans Policy, Marine Environment, and Fisheries,
W77-03585 1007 6E

The Degree of Effectiveness of International Law as Regards International Rivers,
W77-04354 1009 6E

Deep Seabed Mining (Hearings on HR 1270, HR 6017, HR 11879 to Promote Orderly Conservation and Development of the Mineral Resources of the Deep Seabed).
W77-05209 1011 6E

Post Caracas: Striking a Bargain for Settlement at Geneva,
W77-06054 1012 6E

International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
W77-09541 1019 6E

Oil in Neptune's Kingdom: Problems and Responses to Contain Environmental Degradation of the Oceans by Oil Pollution,
W77-09562 1019 5G

United States v Finch (Authority of Crow Tribe to Deny Non-Members Access to Its Land for Fishing Upheld).
W77-11183 1022 6E

200-Mile Fisheries Zone and Joint Ventures (Oversight on the Administration of Public Law 94-265, The Fishery Conservation and Management Act of 1976).
W77-12901 1024 6E

TREATMENT

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Treatment of Troublesome Odors from the Fermentation of Antibiotics (Abbattimento Di Odori Molesti Provenienti Dalla Fermentazione Di Antibiotici),
W77-03603 1008 5D

Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

Water Quality Management--Research and Development Areas,
W77-11747 1023 5G

Waste Water Treatment Apparatus,
W77-12937 1024 5D

TREATMENT FACILITIES

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

Institutional Problems of the Small Treatment Plant,
W77-00010 1001 5D

A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

Utilization of Methane from Sludge Digestion,
W77-00036 1001 5D

Processing, Economics and Sale of Heat Dried Sludge,
W77-00037 1001 5D

Composting Raw Sludge,
W77-00038 1001 5D

Cross-Flow Filtration in Physical-Chemical Treatment of Municipal Sewage Effluents,
W77-00042 1001 5D

Review of the Municipal Waste Water Treatment Works Program,
W77-00043 1001 5D

AWT Plant Begins Operations.
W77-00055 1001 5D

Wastewater Plant Design Reduces Off-Site Energy Needs.
W77-00059 1001 5D

New Acton Grange Works.
W77-00061 1001 5D

San Diego: Civil Engineering Innovations Abound.
W77-00063 1001 5D

Powdered Activated Carbon Improves Anaerobic Digestion,
W77-00067 1001 5D

The Use of Stochastic Models in the Interpretation of HIstorical Data From Sewage Treatment Plants,
W77-00121 1001 5D

Chemical-Technological Control of (Effluent) Purification Equipment (Khimiko-tekhnologicheskii kontrol' na ochistnykh sooruzheniyakh),
W77-00327 1001 5D

The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

Highly Energy Efficient-Wilton Wastewater Treatment Plant,
W77-00579 1002 5D

Relation of Operation and Maintenance to Treatment Plant Efficiency,
W77-00582 1002 5D

Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

Automation in Sewage Processing,
W77-00586 1002 5D

Advanced Treatment and Planned Development Control County's Pollution,
W77-00593 1002 5D

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Self-Monitoring Procedures: Basic Laboratory Skills,
W77-00624 1002 5A

Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

Wastewater Reclamation Project, St. Croix, U.S. Virgin Islands,
W77-00630 1002 5D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition.
W77-00631 1002 5E

The Effluent Treatment Plant of BASF AG in Ludwigshafen/Rhine,
W77-00742 1002 5D

Large-Scale Effluent Treatment in the Dyestuffs Industry.
W77-00758 1002 5D

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

County and Municipal Pollution Control Facilities.
W77-01108 1003 6E

A Solution Procedure for the Design Problem of a Multiple Treatment Plant System Along A Stream,
W77-01165 1003 5D

Theory of Storage and Treatment-Plant Overflows,
W77-01335 1003 5D

Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

The Experience with Monitoring Water Quality in Windhoek,
W77-01457 1003 5D

Package Plant Owner Responsibility and Operation of Small Sewage Units,
W77-01464 1003 5D

Engineering Economics of Water Reclamation,
W77-01466 1003 5D

Modelling of Processes and Plants for Waste Water Settling, (In Hungarian),
W77-01586 1004 5D

The Waste Treatment Facility of Monadnock Paper Mills, Inc.
W77-01641 1004 5D

Introduction of a New Effluent Purification System (Vnedrenie novoi skhemy ochistki stokov),
W77-01644 1004 5D

Modular Aerator and Separator Assembly for Sewage Treatment Facility,
W77-01743 1004 5D

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Water Supply and Sewage Treatment in Arid Areas.
W77-02173 1005 5D

The Design and Construction of a Screening and Pumping Station and an Outfall for the Disposal of Sewage from Brighton and Hove,
W77-02331 1005 5E

Flow Data Collection for Infiltration-Inflow Analysis,
W77-02334 1005 5D

Coleshill Advanced Wastewater Treatment Project,
W77-02344 1005 5D

Advanced Waste Treatment Plant has Physical-Chemical Option,
W77-02345 1005 5D

Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

Solar Sewage Plant 75% Energy Self-Sufficient.
W77-02354 1005 5D

Packaged Plant for Virgin Islands.
W77-02360 1005 8G

Wastewater Plant Does Nicely Without Natural Gas, Thank You,
W77-02363 1005 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Sandwich Construction G.R.P.
W77-02368 1005 8G

Movement of Heavy Metals Below Sewage Disposal Ponds,
W77-02379 1005 5B

Alarm System Continually Monitors Plant Functions,
W77-02382 1005 8C

Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

New Clarifier Installation for Albbruck Paper Mill (Neue Klaeranlage der Papierfabrik Albbruck).
W77-02567 1005 5D

Purification of Waste Waters at Cellulose Attisholz (Epuration des eaux residuaires a la fabrique de Cellulose de Attisholz),
W77-02577 1006 5D

Incineration of Industrial Wastes,
W77-02596 1006 5E

Waste Treatment Advances: Waste Water Treatment Via Activated Carbon,
W77-02610 1006 5D

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

The Rotating Biological Filter,
W77-03282 1007 5D

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

The Impact of Fargo, North Dakota's Waste Discharges on the Interstate Waters of the Red River of the North, September 1969-April 1970,
W77-03361 1007 5B

Technical Assistance Project Greeley Wastewater Treatment Facility, Greeley, Colorado. June-July, 1972,
W77-03368 1007 5D

Integral Circular Wastewater Treatment Plant.
W77-03411 1007 5D

Denver's Headworks Reflects Complexity of System,
W77-03412 1007 5D

Concentric Waste-Treatment Plant Saves Land, Cuts Cost,
W77-03427 1007 5D

The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

Elemental Distribution Diagrams for Biological Wastewater Treatment,
W77-03429 1007 5D

Factors Affecting Powdered Carbon Treatment of a Municipal Wastewater,
W77-03430 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Shelters Boost Winter Treatment Efficiencies,
W77-03432 1007 5D

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

Effluent Variability Estimation for Complete-Mix Activated Sludge Treatment Systems,
W77-03434 1007 5D

Sewage Plant for British Virgin Islands.
W77-03437 1007 5D

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Large Scale Sewage Treatment Plant with Sludge Incinerator.
W77-03442 1007 5D

Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

Flow Equalization by Use of Aeration Tank Volume,
W77-03446 1007 5D

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Supernatant Decanting of Aerobically Digested Waste Activated Sludge,
W77-03450 1007 5D

Tertiary Treatment of Sewage Effluents,
W77-03453 1007 5D

Effect of Water Chlorination Upon Levels of Some Polynuclear Aromatic Hydrocarbons in Water,
W77-03459 1007 5F

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

Nitrate Monitoring.
W77-03468 1007 5A

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

Grant Aid for Plant Operations: An Evaluation,
W77-03483 1007 5G

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Sodium Bicarbonate Neutralizes,
W77-03570 1007 5D

Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Nestle and Pollution Control,
W77-03607 1008 5D

Treatment of Putrefactive Meat and Fish Waste – for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

Evaluation of Wastewater Treatment Facilities.
W77-03619 1008 5D

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

An Analysis of U.S. Environmental Protection Agency's Needs Survey,
W77-04308 1009 5G

Mineral Mining and Processing Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources for Pretreatment Standards for Incompatible Pollutants.
W77-04374 1009 5G

One Chemical Company's Approach to the Problem,
W77-04446 1009 5A

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

High Yield Stripping Column for Alcoholic Solutions–With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Oxygen/Alkali Delignification at Kamyr Digester Blowline Consistency -- A Status Report,
W77-04456 1009 5D

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

Recovering Polyvinyl Alcohol from Waste Water-By Coagulating with Borate and Inorganic Salt in Presence of Quaternary Ammonium Compound to Reduce Water Content of Gel.
W77-04460 1009 5D

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

An Evaluation of Land Treatment of Municipal Waste Water and Physical Siting of Facility Installations,
W77-04635 1010 5D

Human Enteric Viruses in a Waste-Recycling Aquaculture System,
W77-04636 1010 5D

Development and Application of a Simplified Stormwater Management Model,
W77-04637 1010 5D

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

Reverse Osmosis Study on Must Wastewater Treatment,
W77-04646 1010 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Simulated Field Study for I/I Analysis,
W77-04662 1010 5D

Sludge Settling Basin,
W77-04669 1010 5D

Biological Treatment of Effluent Containing Activated Sludge-Involves Continuously Introducing Oxygen (Contg. Gas) and Feeding the Outlet Gas to a Burner.
W77-04671 1010 5D

Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

Settled Sludge Removal.
W77-04673 1010 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

Tertiary Filter for Waste Treatment,
W77-04677 1010 5D

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

Developments at Water Research Centre.
W77-04688 1010 5D

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

How to Keep an Old Plant Running,
W77-04694 1010 5D

Optimization of Multistage Secondary Clarifier,
W77-04695 1010 5D

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

Whither Village Sewage,
W77-04698 1010 5D

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Solving an Interim Problem of Treatment Plant Overload,
W77-04701 1010 5D

Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

Rising to Sewage Problems.
W77-04704 1010 5D

Considerations for Electrical Design in Sewage Lift Stations,
W77-04706 1010 8C

Membrane Filter Method for Recovery of Fecal Coliforms in Chlorinated Sewage Effluents,
W77-04713 1010 5D

How to Control Biological Waste-Treatment Processes,
W77-04722 1010 5D

Decision-Making for Water Quantity and Quality Control,
W77-04739 1010 5D

Three Case Studies on the Application of the Storm Water Management Model,
W77-04742 1010 5B

Mill Visit to Haindl Papier GMBH at Schongau (Besichtigung des Werkes Schongau der Haindl Papier GmbH).
W77-04830 1010 5D

Sewage Treatment Plant,
W77-04964 1010 5D

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Plant Upgraded with Rotating Biological Surface System,
W77-05316 1011 5D

A Dynamic Model and Computer Compatible Control Strategies for Waste Water Treatment Plants,
W77-05322 1011 5D

Asphaltic Concrete Sludge Drying Beds,
W77-05525 1011 5D

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

Suspended Solids Removal,
W77-05710 1012 5D

Spillways with Notched Overflow Edge (Vodoslivy s zubchatoi perelivnoi kromkoi),
W77-05718 1012 8B

Comment on 'An Optimization Model for Regional Water Quality Management' by John R. McNamara,
W77-05919 1012 5G

Models in Biological Wastewater Treatment: Objectives, Results, Applicability,
W77-05980 1012 5D

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

Analysis of Regional Waste Treatment Systems,
W77-05987 1012 5D

Success in GRP Mouldings through Product and Process Diversification.
W77-06102 1013 8G

Waste Treatment and Solids Separating System,
W77-06104 1013 5D

Gas from Sewage, Sludge Pyrolysis Energy Source Says California Study.
W77-06118 1013 5D

The Oxygen-Activated Sludge Process -- Theory and Practice,
W77-06119 1013 5D

Filtration Research in UK Universities,
W77-06120 1013 5D

Residual Saturation of Dewatered Filter Cakes,
W77-06121 1013 5D

Filtration with Granular Beds,
W77-06123 1013 5D

Purification Plants of the Carrousel Type for the Purification of Communal, Trade and Industrial Waste Water (Klaeranlagen vom Typ Carrousel fuer die Reinigung Kommunaler, Gewerblicher und Industrieller Abwaesser),
W77-06124 1013 5D

New Refuse Incinerator to Burn Atomized Sludge,
W77-06125 1013 5E

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Modules Permit Easy Expansion,
W77-06131 1013 5D

Georgia Plant is a Peach,
W77-06136 1013 5D

Sludge Incinerator Proves a Success.
W77-06137 1013 5D

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Ozonation of Reclaimed Water.
W77-06141 1013 5D

Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

Australia Makes Impressive Progress in Pollution Abatement.
W77-06149 1013 5G

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

New System Provides for Growth,
W77-06152 1013 5D

Earth, Fire and Sludge,
W77-06153 1013 5E

Optimizing Costs of Waste Treatment Facilities Using Value Analysis,
W77-06156 1013 5D

Process Control and Data Processing in Sewage Treatment Plants,
W77-06168 1013 5D

Computer Controls 55,000 Cu M/Day of Sewage.
W77-06169 1013 5D

Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. I. Introduction and Future Prospects of Protective Planning (Verfahrens-technische Unterlagen im Hinblick auf die neuen Gewaesserschutz-anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. I. Einfuehrung und Perspektive im Hinblick auf die Gewaesserschutzplanung),
W77-06182 1013 5D

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobieganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Effect of pH on Some Water Treatment Unit Processes (Wplyw odczynu na niektore procesy oczyszczania wody),
W77-06189 1013 5D

Water Treatment Plant Processes and Operations,
W77-06198 1013 5D

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August September 1972.
W77-06202 1013 5D

Waste Water Treatment. Aeration of Waste Water by Oxygen.
W77-06203 1013 5D

Energy Requirements for Wastewater Treatment. Part 2,
W77-06252 1013 5D

Canwel Can Do,
W77-06985 1014 5D

Sewerage for a Rural Resort Area,
W77-06987 1014 5D

Sludge Separator.
W77-06998 1014 5D

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

New Visibility for On-Site Waste Treatment Systems,
W77-07013 1014 5D

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Fluosolids Incinerator Commissioned at Esher,
W77-07018 1014 5E

Sludge Incineration at Esher.
W77-07020 1014 5E

Waste Water Treatment Plant Built in Wet Hole,
W77-07021 1014 5D

The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

Energy Conservation and Heat Recovery in Waste Water Treatment Plants,
W77-07024 1014 5D

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Fail-Safe Waste Treatment System,
W77-07027 1014 5D

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

Upgrading Biological Sewage Treatment Plants Today,
W77-07062 1014 5D

The Development of Regional Industrial Waste Processing Centres,
W77-07205 1015 5D

Fifty Million Dollars Is a Lot of Fish,
W77-07219 1015 5D

Waste Water Plants Use Less Instrumentation than Related Industries,
W77-07872 1016 5D

Financing: There Must be a Better Way,
W77-07873 1016 5G

Survey Predicts 33 Percent Municipal Compliance with 1977 Deadline,
W77-07877 1016 5G

1976 Needs Survey Markedly Lower,
W77-07878 1016 5G

Bristol Regional Sewage Treatment Works--Past, Present and Future,
W77-07901 1016 5D

Automatic Analysis Contributes to Waste Water Treatment Efficiency,
W77-07909 1016 5A

Air V. Oxygen in Dorset,
W77-07910 1016 5D

In-House Treatment.
W77-07917 1016 5D

AWT Plant Meets Tough Demands,
W77-07918 1016 5D

Cost of High Quality Waste Water Treatment for Reuse,
W77-07930 1016 5D

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

Some Reflections of a Sewage Works Manager,
W77-07952 1016 5D

Process Technological Background Regarding New Protective Regulations for Water Bodies-Results of Experiments on Nitrification and Phosphorus Elimination in Zurich and Bern. II. Process Technological Background of Nitrification in Activated Sludge Plants (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutz-Anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. II. Verfahrenstechnische Grundlagen der Nitrifikation in Belebtschlammanlagen),
W77-07953 1016 5D

Investigation of Dynamic Performance of Waste Water Treatment Plants,
W77-08094 1016 5D

Analysis of Activated Sludge Process Performance,
W77-08096 1016 5D

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

State of the Art in Sewage Treatment Plant Control,
W77-08515 1017 5D

Reverse Osmosis on Secondary Sewage Effluent: The Effect of Recovery,
W77-08523 1017 5D

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

The Sanitary Landfill Leachate Control Plant in Kobe.
W77-08534 1017 5D

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de

l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

Michigan Treatment Plant Achieves Zero Discharge, Irrigates Cropland,
W77-08565 1017 5D

Trends in Small Sewage Treatment Plants,
W77-08569 1017 5D

Everything from a Pipe Filter to a Turnkey Project,
W77-08572 1017 5D

Sewage Works is Above Ground Level,
W77-08574 1017 5D

Prospects Strong for Waste Water Oxygenation,
W77-08578 1017 5D

Fluid Bed for Sewage Sludge Burn Up,
W77-08582 1017 5E

1.17 Million (Pound) Works and Sewage Scheme Completed at Market Rasen.
W77-08584 1017 5D

Automatic Control of Whitlingham Sewage Treatment Works Norwich,
W77-08585 1017 5D

Moduflex Sewage Treatment Plants Provide the Answer to Growth,
W77-08588 1017 5D

ICI Effluent System to be Used in Essex.
W77-08590 1017 5D

The Trials and Tribulations of Treatment Works in Lower Trent.
W77-08593 1017 5D

Horsham's Sewage Works,
W77-08595 1017 5D

Plant Capacity to Increase,
W77-08597 1017 5D

Perforated, Vitrified Clay Pipe Used in Peoria Facilities,
W77-08598 1017 8G

What's Up with Oxygen/2,
W77-08627 1018 5D

Advanced Waste Treatment Design Protects Lake Alton,
W77-08631 1018 5G

New Plymouth Sewerage Scheme,
W77-08632 1018 5D

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

Instrumentation Improves Waste Water Treatment Plant Control,
W77-08642 1018 5D

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

EPA Proposes Untimely Amendments,
W77-08970 1018 5G

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

Do Economies of Scale Exist in Water Utility,
W77-09450 1019 5F

Paper Mill Wastewater Treatment by Microstraining,
W77-09758 1020 5D

Gear Motor Solves Plant's Noise Problem.
W77-09827 1020 8C

Spray Irrigation-Waste Water Treatment Facility. North Branch Fire District No. 1, West Dover, Vermont.
W77-09828 1020 5D

Problems and Solutions for Sludge Treatment. Part 2,
W77-09829 1020 5D

Upgrading a Complex Mix Activated Sludge Wastewater Treatment Plant,
W77-09854 1020 5D

Hydrogen Peroxide Subdues Waste Water Plant Problems.
W77-09858 1020 5D

Thurrock Test-Bed for ICI Deep Shaft,
W77-09859 1020 5D

Waste Purification Process.
W77-09865 1020 5D

Oxidation Ditch Gives Low-Cost Secondary Treatment.
W77-09866 1020 5D

Review and Evaluation of Aeration Tank Design Parameters,
W77-09870 1020 5D

Saffron Walden Opens Its Low Profile Sewage Works,
W77-09872 1020 5D

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Polymer Addition Improves Waste Water Treatment Process,
W77-09878 1020 5D

New Wastewater Treatment Systems.
W77-09886 1020 5D

Purification Plant Project,
W77-09889 1020 5D

Advance Sewer Planning for Rio de Janeiro Coastline,
W77-09890 1020 5D

Effluent Treatment Versus Disposal Through Long Sea Outfalls,
W77-09895 1020 5E

Lacey, Olympia, Tumwater, and Thurston County Wastewater Treatment,
W77-09898 1020 5D

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Aeration: Proper Sizing is Critical,
W77-09905 1020 5D

The Identification and Adaptive Prediction of Urban Sewer Flows,
W77-09914 1020 5B

Construction Management for Waste Water-treatment Plants,
W77-09920 1020 5D

Cross Canada Report,
W77-09923 1020 5G

Clarifier for Underground Use,
W77-10081 1020 5D

Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

Fish Water Flats Reclamation Works.
W77-10222 1021 5D

Experience with the Design and Operation of Small Extended Operation Aeration Wastewater Treatment Plants,
W77-10368 1021 5D

Wastewater Management Program, Jamaica Bay, New York, Volume I: Summary Report,
W77-10533 1021 5D

Physical - Chemical Treatment Plant Design,
W77-10534 1021 5D

New Interceptor Sewer is a 'Prime Time' Project,
W77-10546 1021 5D

Standardization for Water Pollution Control Works,
W77-10610 1021 5D

Alum Sludge Disposal - Problems and Success,
W77-10616 1021 5E

Krakstad Waste Water Facility: The First to be Equipped with Contact Rolls for Biological Purification (Krakstad renseanlegg forst med kontaktvalser til biologisk rensing),
W77-10629 1021 5D

Sandvika Waste Water Treatment Plant in Operation. Experience with Design, Construction, and Operation (Sandvika renseanlegg i praksis. Erfaringer fra planlegging, bygging og drift),
W77-10630 1021 5D

Example of Planning for Environmental Protection (Planungsbeispiel zum Umweltschutz).
W77-10694 1021 5D

Simulation Aided Modeling of the Dynamic Behavior for some Elements of a Surface Water Treatment Plant,
W77-10815 1022 5F

Simulation and Optimisation of a Biological Water Treatment Plant,
W77-10816 1022 5D

Regional Waste Disposal Act.
W77-11190 1022 6E

Primary Treatment.
W77-11493 1022 5D

Secondary Treatment.
W77-11494 1022 5D

Advanced Treatment.
W77-11495 1022 5D

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

McAlpine Win Effluent Treatment Works Contracts.
W77-11667 1023 5D

Biological Effluent Treatment Plant - With Three Tanks Arranged for Reversible Flow,
W77-11678 1023 5D

Small-Scale Plant for Mechanically/Biologically Purifying Waste Water.
W77-11679 1023 5D

Thermal Conditioning with Air.
W77-11696 1023 5D

Two Contracts Underway to Complete South Bay Area Water Treatment Plant.
W77-11705 1023 5D

Extensions to Great Billing STW Opened.
W77-11707 1023 5D

Hayle's Long Wait for its Sewage Scheme is Over,
W77-11716 1023 5D

Brisbane Council's First in Australia at Sewerage Treatment Plant.
W77-11719 1023 5D

Water Treatment Plant Design is Cost-Effective,
W77-11742 1023 5D

Rhinelander Solves I and I Problems,
W77-11754 1023 5D

Water Related Utilities for Small Communities in Rural Alaska,
W77-11763 1023 5D

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

Water Pollution Abatement Program Serves Independence, Missouri,
W77-12432 1024 5D

Control Functions at Coppermills Works.
W77-12433 1024 5D

Florida Installation Disperses Effluents Via Irrigation System.
W77-12436 1024 5G

Bay-Area Industries to Re-Use Treated Wastewater.
W77-12437 1024 5D

Deceptive Horse Barn.
W77-12443 1024 5D

Cottonvalley--The Attractive Sewage Works.
W77-12446 1024 5D

The Construction of the First Phase of the Modernisation of Shieldhall Sewage Works in Glasgow,
W77-12450 1024 5D

Easing the Burden on Treatment Works.
W77-12461 1024 5G

North East Sewerage Schemes, Pump Contracts.
W77-12463 1024 8C

Scientific and Technical Evaluation of the Environmental Protection Agency's Wastewater Facilities Planning, Boston Case Study, Phase I: Water Quality Considerations,
W77-12472 1024 5G

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

Inventory of Sewage Treatment Plants for Chesapeake Bay,
W77-12496 1024 5D

Continuing Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants.
W77-12586 1024 5D

Biological Transformation Plant for Refuse and Sludge--With Pre-Mixer for Treatment Chamber,
W77-12918 1024 5D

Waste Water Treatment Apparatus by Biological Action,
W77-12943 1024 5D

TREATMENT TECHNOLOGY

Reducing Coke Plant Effluent,
W77-10922 1022 5D

TREES

Crown Structure and Distribution of Biomass in a Lodgepole Pine Stand,
W77-00729 1002 2I

Water-Retaining Capacity of the Roots of Several Forest Tree Species, (In Bulgarian),
W77-01504 1003 2I

A Comparative Study of the Effect of Soil Moisture on the Growth and Transpiration of Certain Poplar Forms, (In Bulgarian),
W77-02886 1006 2I

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

Experimental Ecology of Selected Vertebrate Species,
W77-03564 1007 6G

Effect of the Soil Water Regime on Water Exchange of the Peach Tree, (In Russian),
W77-06019 1012 2G

Irrigation of the Nebit-Dag Plantings by Mineralized Ground Water, (In Russian),
W77-06691 1014 3C

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

Water Exchange of Juicy Fruits of Trees and Bushes, (In Russian),
W77-09611 1020 2D

The State of Natural and Introduced Trees and Shrubs After a Prolonged Drought in the Bayala Slatina Area, (In Bulgarian),
W77-12627 1024 4A

TREMATODES

Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

The Effect of Hydrotechnical Construction on the Parasites of the Deniper River, (In Russian),
W77-06323 1013 5C

Mesenchymal Tumors of Some Estuarine Fishes in the Northern Gulf of Mexico. II. Subcutaneous Fibromas in the Southern Flounder, Paralichthys Lethostigma, and the Sea Catfish, Arius Felis,
W77-09780 1020 5C

TRENCHES

Problems Associated with Construction of Submarine Pipelines,
W77-07349 1015 8D

Trenching Sludge May be Safe.
W77-08594 1017 5E

TRENCHLESS SEWERS

Innovations in Sewer Design and Construction,
W77-03399 1007 8G

TRENT BIOTIC INDEX

Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

TREORCHY (WALES)

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

TRESPASS

Wood V Woodcock (Rights of Adjoining Landowners to Seepage Water from Joint Irrigation Ditch),
W77-07278 1015 6E

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Dobbs V Missouri Pacific Railroad Company (Liability of Railroads for Surface Water Diversion).
W77-09586 1019 6E

Hogan V. Olivera (General Damages Award Upheld for Flood Damage to Real and Personal Property).
W77-10482 1021 6E

TRI-ARYL PHOSPHATE OIL

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

TRI-CREEK BASIN (ALBERTA)

Hydrogeology of the Tri-Creek Basin, Alberta,
W77-05820 1012 4B

TRIANGULAR ROUGHNESS

Resistance of Two Dimensional Triangular Roughness,
W77-09035 1018 8B

TRIAZINE HERBICIDES
Physiological Effect of Triazine Herbicides on Typha Latifolia L.,
W77-05861 1012 5C

TRIAZINE PESTICIDES
On the Acute Toxicity of Herbicides for Selected Aquatic Organisms. II. Triazin Herbicides and Amitrol (Zur Akuten Toxizitat von Herbiziden Gegenuber Ausgewahlten Waseroorganismen. Teil 2: Trianzinherbizide und Amitrol),
W77-01240 1003 5C

TRIBUTARIES
Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

Classification of Nested Tributary Basins in Analysis of Drainage Basin Shape,
W77-04880 1010 2E

Link Length Organization and Network Scale Dependencies in the Network Diameter Model,
W77-05161 1011 4A

Environmental Law--Commerce Clause--Congress May Prohibit the Discharge of Oil into Nonnavigable Tributary of Navigable Water Absent Showing that Oil Reached and Polluted Navigable Water,
W77-06053 1012 5G

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

PCB Investigations of the Mississippi River and its Tributaries Water, Bottom Sediment and Point Sources,
W77-06368 1013 5C

Effect of Spring Floods on Water Acidity in the Kiiminkijoki Area, Finland,
W77-06481 1013 5B

Columbia River Nutrient Study-1972,
W77-09504 1019 5C

TRICAINE METHANESULPHONATE
The Effect of Tricain Methanesulphonate (MS-222) on the Microhaematocrit of Fish Blood,
W77-09665 1020 5C

TRICHLOROBENZENE
Organic Contaminant Residues in Fishes from Nipigon Bay, Lake Superior,
W77-11355 1022 5C

TRICHLOROFLUOROMETHANE
Trichlorofluoromethane in Ground Water - A Possible Indicator of Ground-Water Age,
W77-05851 1012 2F

TRICHLOROFON
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

TRICHODERMA VIRIDE
Enzymatic Treatment of Primary Municipal Sludge with Trichoderma Viride Cellulase,
W77-08529 1017 5D

TRICHOPTERA
The Emergence of Insects from a British River, Warmed by Power Station Cooling-Water. Part II. The Emergence Patterns of Some Species of Ephemeroptera, Trichoptera, and Megaloptera in Relation to Water Temperature and River Flow, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03044 1006 5C

Concerning the Influence of the Hydrogen Ion Concentration and of the Bicarbonate Concentration on the Structure of Biocenoses of Mountain Brooks, (In German),
W77-09620 1020 2I

On the Aquatic Insect Communities in Shore Zones and Influents as Well as Effluents of Lakes in Shinshu, (In Japanese),
W77-10949 1022 2H

Emergence of Trichoptera in 1972-74 from Two Streams Near Lunz (Austria), (In German),
W77-12609 1024 2I

TRICKLE-DRIP IRRIGATION
Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

TRICKLE EMITTERS (IRRIGATION)
Drip or Trickle Emitter for Use in Drip or Trickle Irrigation,
W77-01756 1004 3F

TRICKLE IRRIGATION
Two-Dimensional Solutes Transfer During Nonsteady Infiltration: Laboratory Test of Mathematical Model,
W77-00288 1001 2G

Annotated Bibliography on Trickle Irrigation,
W77-00315 1001 3F

Energy Gradient Line for Drip Irrigation Laterals,
W77-00318 1001 3F

Water and Salt Distribution in a Soil Under Trickle Irrigation,
W77-01271 1003 3C

The Influence of Trickle Irrigation on the Quality of Irrigation Return Flow,
W77-01680 1004 5G

Simulating Farm Irrigation System Energy Requirements,
W77-01816 1004 3F

Drip Irrigation Filtration Problems and Research,
W77-02090 1005 3F

Drip Irrigation Progress and Problems,
W77-02091 1005 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation--I. Evapotranspiration and Yield Relationship,
W77-02103 1005 3F

Distribution of Water and Ions in Soils Irrigated and Fertilized from a Trickle Source,
W77-02855 1006 3F

Automated Control of Trickle Irrigation in Citrus,
W77-02864 1006 3F

Drip Irrigation an Efficient Technique,
W77-04321 1009 3F

Soil Structural Breakdown Under Irrigation,
W77-04789 1010 3F

Trickle Irrigation Design,
W77-05311 1011 3F

Time-Dependent Linearized Infiltration: III. Strip and Disc Sources,
W77-06011 1012 3F

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Trickle Irrigation and Fertilization of Tomatoes in Sand Dunes: Water, N, and P Distributions in the Soil and Uptake by Plants,
W77-11104 1022 3F

Temperature Effects on Emitter Discharge Rates,
W77-11406 1022 3F

Modeling Soil Water Movement for Trickle Irrigation - Phase II,
W77-12256 1024 2G

Drip/Trickle Irrigation Generating Growth, Optimism,
W77-12521 1024 3F

High-Frequency Trickle Irrigation and Row Spacing Effects on Yield and Quality of Potatoes,
W77-12533 1024 3F

Drip Irrigation - Worldwide 1975 Present Status and Outlook for Drip Irrigation,
W77-12629 1024 3F

Evapotranspiration Potential Under Trickle Irrigation,
W77-12780 1024 3F

TRICKLING FILTER
Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

TRICKLING FILTERS
Bark as Non-Inert Trickling Filter Medium for Pulp Mill Effluent,
W77-01666 1004 5D

Technical Assistance Project Greeley Wastewater Treatment Facility, Greeley, Colorado. June-July, 1972,
W77-03368 1007 5D

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Biological Filter Design Optimization,
W77-05981 1012 5D

Effects of Dosing Rates on Trickling Filter Performance,
W77-06167 1013 5D

Two-Stage Filtration of Secondary Effluent,
W77-07907 1016 5D

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Evaluation and Upgrading of a Multi-Stage Trickling Filter Facility,
W77-10537 1021 5D

Methods for Improvement of Trickling Filter Plant Performance: Part II - Chemical Addition,
W77-12078 1023 5D

TRICKLING FILTERS

Effect of Residence Time on Fixed Film Reactor Performance,
W77-12427 1024 5D

TRICKLNG FILTERS
Advanced Trickling Filter for Wastewater Treatment,
W77-03365 1007 5D

TRIESTE
Trieste–Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

TRIETHYLTIN CHLORIDE
Evaluation of the Toxicity of Substances Being Released into Water Bodies for the Early Development of Fish, (In Russian),
W77-00189 1001 5C

TRIFLURALIN
Losses of Diuron, Linuron, Fenac, and Trifluralin in Surface Drainage Water,
W77-03639 1008 5G

Effects of the Synergist Piperonyl Butoxide on Metabolism of Pesticides in Green Sunfish,
W77-05610 1012 5C

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

TRINECTES SPP.
Movement of Mirex from Sediment and uptake by the Hogchoker, Trinects Maculatus,
W77-05876 1012 5C

TRINIDAD
Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

TRINITROTOLUENE
The Toxic Effects of Trinitrotoluene (TNT) and its Primary Degradation Products on Two Species of Algae and the Fathead Minnow,
W77-05651 1012 5C

TRINITROTOLUENE (TNT)
Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Aquatic Field Survey at Iowa Army Ammunition Plant,
W77-03386 1007 5C

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

TRINITY BAY (TEXAS)
Seasonal Fluctuations of Dieldrin Residues in the Tissues of the Marsh Clam, Rangia Cuneata, from a Texas Estuary,
W77-00717 1002 5B

TRINITY RIVER BASIN (TEX)
Hydrologic Data for North Creek Trinity River Basin, Texas, 1975,
W77-12155 1023 7C

TRINITY RIVER FLOOD PLAIN (TEX)
Simulated Effects of the Proposed Tennessee Colony Reservoir on Ground-Water Conditions in the Carrizo-Wilcox Aquifer and Trinity River Alluvium, Texas,
W77-02305 1005 4A

TRINITY SOILS
Distribution of Plutonium in Trinity Soils After 28 Years,
W77-09647 1020 5B

TRIPOLYPHOSPHATES
Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Tripolyphosphate and Pyrophosphate Hydrolysis in Sediments,
W77-10285 1021 5B

TRIPTON
Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

Tripton Sedimentation in Eutrophic Lakes–Sample Correction for the Resuspended Matter,
W77-07463 1015 5C

An Investigation of Colloidal Organic Particles Isolated from Different Populations of Bivalves,
W77-07498 1015 5A

TRIS
Toxicity to Fish of Flame Retardant Fabrics Immersed in Their Water. Part I,
W77-08765 1018 5C

TRITHION
The Effect of Organophosphorus Insecticides on Nerve Agent Detector Tickets,
W77-07824 1016 5C

TRITIUM
Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Application of Environmental Tritium in the Measurement of Recharge and Aquifer Parameters in a Semi-Arid Limestone Terrain,
W77-04106 1009 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, III. Hydrologic Parameters,
W77-05176 1011 2F

Deuterium, Tritium and Gross-Beta-Activity Investigations on Alpine Glaciers (Otztal Alps),
W77-05420 1011 2C

Infiltration of Tritium-Labeled Water in Two Subsoil Loosened Greyloam-Pseudogleys, (In German),
W77-06462 1013 2G

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

A New Method for Physical Limnology–Tritium-Helium-3 Ages–Results for Lake Erie, Huron, and Ontario,
W77-07168 1015 2H

Predicting 2,4,5-T Movement in Soil Columns,
W77-09649 1020 5B

Tritium in the Monitoring of Water Supply.
W77-10196 1021 2F

The Use of Natural Tritium for Evaluating Aquifer Recharge,
W77-10372 1021 2F

Mass Transfer Studies in Sorbin Porous Media: II. Experimental Evaluation with Tritium (3H20),
W77-11983 1023 2G

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

TRITIUM FALLOUT
Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, I. Tritium Input Function and Precipitation-Recharge Relation,
W77-05174 1011 2F

Environmental Tritium as a Hydrometeorologic Tool in the Roswell Basin, New Mexico, II. Tritium Patterns in Groundwater,
W77-05175 1011 2F

TROPHIC CLASSIFICATION
Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

TROPHIC INDEX SYSTEM
An Approach to a Relative Trophic Index for Classifying Lakes and Reservoirs. (A Preliminary Analysis of National Eutrophication Survey Data Collected During the 1972 Sampling Period).
W77-00930 1002 5C

TROPHIC LEVEL
Algal Productivity in 49 Lake Waters as Determined by Algal Assays,
W77-00187 1001 5C

Nutrient Economies and Trophic Status of Lakes Sorell and Crescent, Tasmania (Australia),
W77-00451 1001 5C

An Approach to a Relative Trophic Index for Classifying Lakes and Reservoirs. (A Preliminary Analysis of National Eutrophication Survey Data Collected During the 1972 Sampling Period).
W77-00930 1002 5C

A Preliminary Trophic Status Classification of Some South African Impoundments,
W77-01363 1003 5C

Trophic Classification of Lakes Using LANDSAT-1 (ERTS-1) Multispectral Scanner Data,
W77-02825 1006 5A

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Lake Phosphorus Loading Graphs: An Alternative,
W77-03377 1007 5C

Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

Mutual Effect of Zooflagellates, Algae and Bacteria, (In Russian),
W77-04137 1009 5C

Proceedings: Biostimulation and Nutrient Assessment Workshop.
W77-04153 1009 5C

Tasks and Principles of Biological Analysis of the Degree of Pollution of Water Bodies, (In Russian),
W77-04598 1009 5A

The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Dynamics of Phytoplankton Biomass in Two Lakes of Different Limnological Character,
W77-06685 1014 5C

The Historic and Present Relationships Between Phytoplankton, Limiting Nutrients, and Sediment-Water Geochemical Processes in Selected Maine Lakes,
W77-06741 1014 5C

Spatial and Temporal Changes in the Primary Productivity of Lake Tahoe, California-Nevada Between 1959 and 1971,
W77-07443 1015 5C

A Model of the Phosphorus Cycle and Phytoplankton Growth in Skaha Lake, British Columbia, Canada,
W77-07445 1015 5C

Predicting the Impacts of Phosphorus Management Policies on the Eutrophication of Skaha Lake, British Columbia, Canada,
W77-07446 1015 5C

Sediment Respiration in Six Italian Lakes in Different Trophic Conditions,
W77-07461 1015 5C

An Organic Carbon Budget for an Oligotrophic Lake In New Hampshire, U.S.A.,
W77-07470 1015 5C

The Contribution of Autochthonous and Allochthonous Matter to the Trophy of a River in the Barbel Region,
W77-07986 1016 5C

The Influence of Mineral Fertilization on Phytoplankton Production in Lakes of Various Trophic Types,
W77-07988 1016 5C

Optimal Growth Temperatures and Media Parameters of Bacterial Communities from Lakes of Different Trophic States,
W77-07994 1016 5C

An Evaluation of the National Eutrophication Survey Data,
W77-08710 1018 5C

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

An Energy Balance for Algal Populations in Light-Limiting Conditions,
W77-09609 1020 5C

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

Seasonal Changes of Planktonic Crustacea in Two Newfoundland Lakes,
W77-11417 1022 5C

Changes in the Vertical Distribution of the Planktonic Crustacea in Lake Tazenat and Lake Pavin (Massif Central, France) During the Year, (In French),
W77-12468 1024 2H

TROPHIC LEVELS

Ecosystem Dynamics Birds and Marine Mammals. Part I: Preliminary Estimates of Pinniped - Finfish Relationships in the Bering Sea,
W77-06806 1014 6G

TROPHIC PATHWAY

Distributions and Natural Levels of Related Metals in a Trophic Pathway,
W77-02646 1006 5B

TROPHIC RELATIONSHIPS

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

TROPHOGENIC LAYER (LAKES)

Discharge of Treated Wastewater in Lakes, (In German),
W77-04595 1009 5B

TROPIC LEVEL

The Efficiency of Photosynthetic Light Energy Utilization by Lake Phytoplankton,
W77-06393 1013 5C

The Limnology of a North Carolina Millpond with Special Reference to Historical Changes as Evidenced by Sediment Core Analysis,
W77-08507 1017 5C

TROPICAL AREAS

The Method of Calculating Water-Absorbing Forest Belt Under Tropical Conditions of Cuba, (In Russian),
W77-04747 1010 4A

TROPICAL REGIONS

Causes of a Greater Effect of Predators on Non-Predatory Fish Populations in Low Latitudes, (In Russian),
W77-00521 1001 2I

Power from the Sea,
W77-00977 1002 3E

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

Non-Biological Factors Affecting Phosphate Recycling in the Water of a Tropical Eutrophic Lake,
W77-06391 1013 5C

The Effect of Soil Moisture on Circulation and Rainfall in a Tropical Model,
W77-07166 1015 2B

A Survey of the Physical and Chemical Limnology of Lake Titicaca,
W77-07460 1015 5C

Algal Productivity of Natural and Artificially Enriched Fresh Waters in Malaya,
W77-07471 1015 5C

A Survey of the Biological Limnology of Lake Titicaca,
W77-07503 1015 5C

Lake Izabal, Guatemala,
W77-07504 1015 5C

Seasonal Oceanic Precipitation Frequencies from Nimbus 5 Microwave Data,
W77-10105 1021 2B

The Occurrence and Behaviour of Adult Chaoborus and Procladius (Diptera: Nematocera) from Lake George, Uganda,
W77-11419 1022 5C

Tropical Agriculture: Crop Diversity and Crop Yields,
W77-12828 1024 3F

TROPICAL SOILS

Temperature Effects on Ammonification and Nitrification in a Tropical Soil,
W77-00307 1001 2G

The Slow Reaction which Continues After Phosphate Adsorption: Kinetics and Equilibrium in Some Tropical Soils,
W77-09980 1020 2G

Potential for Saline Water Irrigation of Tropical Soils,
W77-12744 1024 3C

TROPICAL SOILS (HAWAII)

Predicting Runoff Initiation Times Under Field Conditions in Tropical (Hawaii) Soils,
W77-04252 1009 2G

TROPICAL STORM AGNES

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Improving the Sanitary Protection of Ground Water in Severely Folded, Fractured, and Creviced Limestone,
W77-04890 1010 5B

TROPICAL STORM DELIA (1973)

Continental Shelf Currents in Tropical Storm Delia: Observations and Theory,
W77-12298 1024 2L

TROPICAL STORMS

Generalized Relationship Between Maximum Rain Depth, Area and Return Period for Major Rainstorms,
W77-01131 1003 2B

A Sheared Coordinate System for Storm Surge Equations of Motion with a Mildly Curved Coast,
W77-02674 1006 2B

TROPICAL WATERSHEDS
Variability and Error in Rainfall Over a Small Tropical Watershed,
W77-10769 1021 2B

TROUT
Effect of an Artificially Increased Sand Bedload on Stream Morphology and Its Implications on Fish Habitat,
W77-00814 1002 2J

Chronic Effects of Reduced pH on Brook Trout (Salvelinus Fontinalis),
W77-01266 1003 5C

Lesions Associated with Chronic Exposure to Ammonia,
W77-02693 1006 5C

Observations on Gas Bubble Disease Among Wild Adult Columbia River Fishes,
W77-02705 1006 5C

Changes in Fish Species Composition in the Au Sable River, Michigan from the 1920's to 1972,
W77-02712 1006 5C

DDE and Lindane in a Large-Scale Model Lentic Ecosystem,
W77-02713 1006 5C

Production by Brook Trout (Salvelinus Fontinalis) in Four Streams in the Matamek Watershed, Quebec,
W77-03020 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

Artificial Insemination in Trout Using A Sperm Diluant,
W77-04529 1009 2I

Brain Growth of Young Herring and Trout,
W77-04546 1009 2I

Gas Supersaturation Research, National Marine Fisheries Service, Prescott Facility, 1971-1974,
W77-05085 1010 5C

The Ability of Several Species of Fish to Survive on Prolonged Exposure to Abnormally High Concentrations of Dissolved Oxygen,
W77-05475 1011 5C

Toxic Effects of Hexavalent Chromium on Brook Trout (Salvelinus Fontinalis) and Rainbow Trout (Salmo Gairdneri),
W77-05641 1012 5C

Presence and Distribution of Polychlorinated Biphenyls (PCB) in Arctic and Subarctic Marine Food Chains,
W77-06266 1013 5B

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

Long-Term Effects of Lead Exposure on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06401 1013 5C

Toxic Effects of Cadmium on Three Generations of Brook Trout (Salvelinus fontinalis),
W77-06402 1013 5C

Movement of Rainbow Trout Across a Metalimnion Deficient in Dissolved Oxygen,
W77-06417 1013 5C

Reproductive Cycle of Trout and Tench: Effect of Experimental Variations of the Temperature, (Etude Sur le Cycle Reproducteur do la Truite Arc-En-Ciel et de la Tanche: Effet de Variations Experimentales de la Temperature),
W77-06779 1014 5C

A Preliminary Evaluation of the Effects of Gas Bubble Disease on Fish Populations in the Kootenai River Below Libby Dam,
W77-06919 1014 5C

Some Effects of Channelization on the Fishes and Invertebrates of Rush Creek, Modoc County, California,
W77-07109 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Effects of Primary Treated and Biologically Stabilized Kraft Mill Effluents on the Production, Biomass and Growth Rates of Juvenile Salmonids in Three Stream Channels,
W77-08921 1018 5C

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

Influence of Certain Water Conditions, Especially Dissolved Gasses, on Trout,
W77-09790 1020 5C

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

Early Developmental Effects of Lime Neutralized Iron Hydroxide Suspensions on Brook Trout and Coho Salmon,
W77-12020 1023 5C

Temperature Tolerances and Upper Lethal Limits of Salmo Apache,
W77-12052 1023 5C

Suppression of the Primary Immune Response in Rainbow Trout, Salmo Gairdneri, Sublethally Exposed to Tritiated Water During Embryogenesis,
W77-12194 1023 5C

Does Low Environmental pH Influence Hepatic Growth in Fish,
W77-12203 1023 5C

Vergleichende Prufungen der Fischtoxizitaten an Elritzen Forellen und Goldorfen (Comparative Tests on Toxicity to Fish Using Minnows, Trout, and Golden Orfe), (In German),
W77-12212 1023 5A

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

TROUT BROOK (NB)
Abundance and Population Dynamics of Parasites Infecting Atlantic Salmon (Salmo Salar) in Trout Brook, New Brunswick, Canada,
W77-03053 1006 5C

TROUT CREEK (WIS)
Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

TROUT HATCHERY
Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

TRUCKEE AND CARSON RIVERS (NEV)
Arid Basin Management Model with Concurrent Quality and Flow Constraints-Phase II,
W77-04147 1009 2A

TRUCKEE RIVER BASIN
California-Nevada Interstate Compact.
W77-06575 1013 6E

TRURO (MASS)
Potential for Development of Ground Water at a Test Site Near Truro, Massachusetts,
W77-02306 1005 4B

TRUST FUNDS
Environmental Trust Funds: An Evaluation,
W77-02432 1005 5G

TSIMLYANSK RESERVOIR (USSR)
Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

TSUNAMIS
Flood Plain Information: Resurrection River and Salmon Creek, Alaska.
W77-00105 1001 4A

On the Possible Detection of Tsunamis by a Monitoring of the Ionosphere,
W77-01918 1004 2L

On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Effect of Source Orientation and Location in the Peru-Chile Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W77-09983 1020 2L

TUB LAKE (WIS)
Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

TUBES
Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Field Evaluation of 102-mm (4-inch) Corrugated Polyethylene Tubing,
W77-10172 1021 8G

TUBEWELLS
The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

TUBIFEX
The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

TUBIFEX-SP
Studies on the Bottom Fauna of Five Lakes in Southern Hokkaido (Lakes Hikotsu-Ko, Kuttara-Ko, Toya-Ko, Hangetsu-Ko and Oshima O-Numa, (In Japanese),
W77-01037 1002 5C

TUBIFICIDS
Tubificids (Oligochaeta: Tubificidae) - Indicators of the Quality of Water Bodies, (In Russian),
W77-02225 1005 5A

Toxicological Characteristics of Acute Phenol Intoxication in Some Freshwater Worms, (In Russian),
W77-02237 1005 5C

Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
W77-08955 1018 5C

On Alexandrovia Onegensis Hrave from Alaska, with a Revision of the Telmatodrilinae (Oligochaeta, Tubificidae),
W77-09518 1019 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part II - Effects on Respiration Rate,
W77-11359 1022 5C

TUCSON
Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

TUCSON (ARIZ)
Pricing Urban Water,
W77-02171 1005 6D

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Tracing Sewage Effluent Recharge--Tucson, Arizona,
W77-05999 1012 5B

TUCSON BASIN
Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

TUCSON BASIN (ARIZ)
The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

TUGELA RIVER (NATAL)
Hydro-Electric Development of the Tugela River,
W77-10073 1020 8C

TUGELA RIVER-VAAL RIVER WATER SCHEME (SO AFR)
The Tugela-Vaal State Water Scheme as a Bilharzia Risk (Die Tugela-Vaal-Staatswaterskema as 'n Bilharziarisiko),
W77-09690 1020 5G

TULALIP INDIAN RESERVATION (WASH)
Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

TUMLIRZ EQUATION
Analytic Equation of State for Sea Water,
W77-03770 1008 1B

TUMORS
The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

TUNA
The 200-Mile Exclusive Economic Zone: Death Knoll for the American Tuna Industry,
W77-01074 1003 6E

Mercury in Aquatic Organisms. II. Mercury Distribution in Muscles of Tunas and Swordfish, (In Japanese),
W77-10253 1021 5A

TUNDRA
Role of the Snow Cover in the Nature of Northern Landscapes and Its Physical Properties,
W77-03988 1008 2C

Daily Vertical Distribution of Zooplankton in Some Lakes in the Eastern Part of the Bol'shezemel'skaya Tundra (In Russian),
W77-11501 1023 2L

TUNGABHADRA (INDIA)
Studies on the Tungabhadra Catchment Soils: II. Physicochemical Properties and Soil Taxonomy,
W77-12879 1024 2G

TUNGSTEN
Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

TUNISIA
The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

TUNISIA (LAKE OF TUNIS)
Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

TUNNEL BORING
Conference on Research in Tunneling and Excavation Technology,
W77-06885 1014 8E

TUNNEL CONSTRUCTION
Tunnelling Machine Used for Drain Tunnel for Roundhill Sewage Treatment Works Breaks Record.
W77-00069 1001 8C

Floods, A Fissure and a Perfect Holing.
W77-01470 1003 8E

Slipform Paver, Steel Forms Speed Lining of 25,000-Foot Sewer Tunnel,
W77-06992 1014 8F

Through the Andes.
W77-09687 1020 8A

The Day They Almost Abandoned the Orange-Fish Tunnel,
W77-10077 1020 8A

TUNNEL DESIGN
Tunnelling Machine Used for Drain Tunnel for Roundhill Sewage Treatment Works Breaks Record.
W77-00069 1001 8C

83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

Floods, A Fissure and a Perfect Holing.
W77-01470 1003 8E

Research with a Practical Bias.
W77-01471 1003 8E

Monitoring the Behaviour of Rock Tunnels During Construction,
W77-01475 1003 8G

Through the Andes.
W77-09687 1020 8A

TUNNEL LININGS
Slipform Paver, Steel Forms Speed Lining of 25,000-Foot Sewer Tunnel,
W77-06992 1014 8F

TUNNELING
Tunnelling Machine Used for Drain Tunnel for Roundhill Sewage Treatment Works Breaks Record.
W77-00069 1001 8C

83 Kilometres of Risks and Unknowns.
W77-01469 1003 8H

Precast Segments Speed Installation of Thunder Bay Sewer,
W77-02330 1005 8F

Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A--Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B--Subterrene Cost Analyses,
W77-06664 1014 8A

Conference on Research in Tunneling and Excavation Technology,
W77-06885 1014 8E

TUNNELING MACHINES
Tunnelling Machine Used for Drain Tunnel for Roundhill Sewage Treatment Works Breaks Record.
W77-00069 1001 8C

Cost Comparison Between Subterrene and Current Tunneling Methods,
W77-06662 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix A–Baseline Cost Analyses,
W77-06663 1014 8A

Cost Comparison Between Subterrene and Current Tunneling Methods, Appendix B–Subterrene Cost Analyses,
W77-06664 1014 8A

TUNNELLING
Research with a Practical Bias.
W77-01471 1003 8E

Mechanical Mole Burrows Sewer Tunnel,
W77-03397 1007 8C

A Unique Means of Obtaining Sea-Water,
W77-09692 1020 8E

TUNNELLING MACHINES
Mechanical Mole Burrows Sewer Tunnel,
W77-03397 1007 8C

TUNNELS
Austin's 11 Mile Sewer Tunnel Reflects Sound Economic, Environmental Alternatives,
W77-02327 1005 5D

Milton Keynes Sewerage System Opened,
W77-05318 1011 5D

Leadville Mine Drainage Tunnel Act of 1976.
W77-08115 1017 6E

Chicago Plan Designed for Pollution and Flood Control.
W77-09838 1020 4A

Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume VII. Single- and Multicell Conduits and Tunnels,
W77-10333 1021 8A

TURBIDIMETERS
Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

TURBIDITY
Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

Control of Turbidity at Construction Sites,
W77-00808 1002 4D

The Use of Color Infrared Photography for the Determination of Suspended Sediment Concentrations and Source Areas,
W77-00844 1002 2J

Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Suspended Sediment Determination in Estuarine Waters from Photometer and Secchi Disc Measurements,
W77-01795 1004 5A

Effects of Turbidity on Ventilation Rates and Oxygen Consumption of Green Sunfish, Lepomis Cyanellus,
W77-02697 1006 5C

Effects of Water Quality on Larval Settlements in Los Angeles Harbor as Determined by Multivariate Statistical Techniques,
W77-02735 1006 5C

The Erosion Index as a Factor for Determining Turbidity in Rivers (L'Indice D'Erosion-Facteur de Determination de la Turbidite des Rivieres),
W77-02773 1006 2J

Techniques for Reducing Turbidity Associated with Present Dredging Procedures and Operations,
W77-02936 1006 5G

Measurement of 'Turbidity' and Related Characteristics of Natural Waters,
W77-03339 1007 7B

Suspended Sediment Data from Nearshore Waters of Georgia,
W77-04836 1010 2J

Ecological Significance of Water Turbidity Exemplified by Ponds of the North Caucasus, (In Russian),
W77-04861 1010 5B

Determining Suspended Sediment Loads from Turbidity Records,
W77-04988 1010 2J

Effects of Environmental Disturbance on the Distribution and Primary Production of Benthic Algae on a British Columbia Estuary,
W77-05635 1012 5C

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Ground-Water Turbidity Resulting from Artificial Recharge,
W77-06312 1013 5B

Influence of Turbidity on Survival, Growth, and Distribution of Larval Lake Herring (Coregonus Artedii),
W77-06434 1013 5C

Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

Feeding of Forage Fish in Turbid Kansas Reservoirs,
W77-07817 1016 2H

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

Remote Measurement of 'Turbidity' and Other Water Quality Parameters,
W77-10985 1022 5A

Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Overpurge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

Effect of Shape of Paddle and Container on Flocculation Process,
W77-11758 1023 5D

Circulation Observations in the Louisiana Bight Using Landsat Imagery,
W77-11895 1023 2L

Analysis of Variations in Ocean Color,
W77-12557 1024 2K

TURBIDITY CONTROL
Control of Turbidity at Construction Sites,
W77-00808 1002 4D

TURBIDITY CURRENTS
Submarine Meandering Thalweg and Turbidity Current Flowing for 4,000 KM in the Northwest Atlantic Mid-Ocean Channel, Labrador Sea,
W77-01150 1003 2L

Man-Made Turbidity Currents in Lake Superior,
W77-05762 1012 5B

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

Current-Meter Recordings of Low-Speed Turbidity Currents,
W77-08847 1018 2L

TURBIDITY MAXIMUMS
Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

TURBIDITY PLUMES
Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-07549 1015 2H

Remote Sensing of Turbidity Plumes in Lake Ontario,
W77-08752 1018 7B

TURBINE EFFICIENCY
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

TURBINE INTAKE GATEWELLS
Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

TURBINE OPERATING CONDITIONS
Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

TURBINE RUNNERS
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

TURBINES
Selecting Hydraulic Reaction Turbines,
W77-01685 1004 8C

Collection of Juvenile Salmonids from Turbine Intake Gatewells of Major Dams in the Columbia River System,
W77-07419 1015 5C

Passing Fish Through Hydraulic Turbines,
W77-07713 1016 8I

Gas Turbine Gen-Sets for Sewage Treatment Standby.
W77-12442 1024 5D

TURBOT
Nutrition de la Larve de Turbot (Scophthalmus Maximus L.) Avant la Metamorphose,
W77-04526 1009 5C

Progress Towards the Development of a Successful Rearing Technique for Larvae of the Turbot, Scophthalmus Maximus L.,
W77-04527 1009 2I

TURBULENCE
Similarity of the Mean Motion of Fluid Particles Dispersing in a Natural Channel,
W77-00371 1001 5B

Geometry of River Meanders,
W77-01340 1003 2E

Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

Measurements of the Turbulent Boundary Layer Under Pack Ice,
W77-02138 1005 2C

Oblique Impingement of Plane Turbulent Jets,
W77-02464 1005 8B

Convective Model of Longitudinal Dispersion,
W77-02988 1006 5B

Low-Frequency Turbulence Spectra in the Mixed Layer of Lake Tahoe, California-Nevada,
W77-05155 1011 2H

The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

Investigation of the Effects of Nonhomogeneous (or Nonstationary) Behavior on the Spectra of Atmospheric Turbulence,
W77-06678 1014 2B

Evidence for Strong Currents and Turbulence in a Deep Coral Reef Groove,
W77-06904 1014 2L

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Short Jet Impingement,
W77-09016 1018 8B

A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

The Motion of a Small Sphere in a Rotating Velocity Field: A Possible Mechanism for Suspending Particles in Turbulence,
W77-10108 1021 2L

Analytical Evaluation of Techniques for Use of a Laser Doppler Velocimeter to Measure Flow and Turbulence,
W77-10784 1021 2E

Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Transverse Mixing in Partially Stratified Flow,
W77-10965 1022 8B

Growth Inhibition Caused by Turbulence in the Toxic Marine Dinoflagellate Gonyaulax Excavata,
W77-11418 1022 5C

Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

Numerical Model for Discrete Settling,
W77-11593 1023 8B

TURBULENT BOUNDARY LAYERS
The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

TURBULENT DIFFUSION
Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

TURBULENT DIFFUSION MODELS
Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

TURBULENT FLOW
Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

Resistance Equation for Alluvial-Channel Flow,
W77-02971 1006 8B

Analysis of One-Dimensional Non-Darcy Vertical Infiltration,
W77-03752 1008 2F

An Introduction to Shear Flow Dispersion and Its Relevance to Dispersion on the Continental Shelf,
W77-04939 1010 5B

Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Snowmelt: A Two-Dimensional Turbulent Diffusion Model,
W77-08823 1018 2C

Mean Energy in Gradually Diverging Flow,
W77-10851 1022 8B

Drag Reduction in Turbulent Flow of Polymer Solutions,
W77-12541 1024 8B

TURBULENT FLOWS
Hydrodynamics-Dispersion Studies in Storm Sewers,
W77-02827 1006 8B

TURBULENT MIXING LOSS
Friction Effects on Spatially Varied Open Channel Flows with Increasing Discharge,
W77-05674 1012 8B

TURBULENT SHEAR FLOW
Dispersion of Water Pollutants in a Turbulent Shear Flow,
W77-05346 1011 5B

TURC
The Measurement and Estimation of Potential Evapotranspiration,
W77-02802 1006 2D

TURF GRASSES
Long-Term Evaluation of Slow-Release Nitrogen Sources of Turfgrass,
W77-09978 1020 3C

Subterranean Irrigation, A Special Report on the PAT, Inc. System,
W77-12523 1024 3F

TURGOR POTENTIAL
Water Relations of Field Grown Cotton and Sorghum: Temporal and Diurnal Changes in Leaf Water, Osmotic, and Turgor Potentials,
W77-11099 1022 2I

TURKEY
Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

The Karakaya Dam and Hydro-Electric Project in Eastern Turkey,
W77-01465 1003 8C

The Effect of Different Methods on Growth, Development and Yield of Cotton, (In German),
W77-06962 1014 3F

Accumulation and Distribution of Trace Metals and Radionuclides in Marine Organisms (Particularly Tapes Decussatus L.) in the Izmir Bay Area, Turkey,
W77-07395 1015 5C

Mathematical Simulation Models of Hydrological Processes in Turkey,
W77-10430 1021 2A

***TURKMEN-SSR**
Sodium Carbonate in Ground Waters of the Turkmen SSR, (In Russian),
W77-00384 1001 3C

Wind Erosion of Sand and Measures for Reclamation in the Zone of the Kara Kum Canal, (In Russian),
W77-00970 1002 4D

Soils of the Meshed Tract in Southwestern Turkmen SSR, (In Russian),
W77-00975 1002 2G

Salt Composition of Water from the Western (Kurtli) Reservoir, (In Russian),
W77-05101 1011 2H

Reproduction Rate and Productivity of Bacteria in the Ponds of the Karamet-Niyaz Fishery Farm, (In Russian),
W77-08462 1017 5C

TURKMEN-SSR (USSR)
Characteristics of the Main Components of Water Balance of Sandy Desert Plant Communities, (In Russian),
W77-00882 1002 2I

TURN POINT (SAN JUAN ISLAND WASHINGTON)
Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

TURNOVER RATE (NUTRIENTS)
Orthophosphate Turnover in East African Lakes,
W77-10752 1021 5C

TURPENTINE
Toxicity of Effluents from the Purification of Tall Oil Products and Crude Turpentine for the Microflora of Treatment Facilities (Opredelenie toksichnosti stochnykh vod ot ustanovok po ochistke tallovykh produktor i skipidara-syrtsa po otnosheniyu k mikroflore ochistnykh sooruzhenii),
W77-10703 1021 5C

TURTLE GRASS
The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

TURTLE GRASS BEDS
The Ecological Effects of Physical Damage from Motor Boats on Turtle Grass Beds in Southern Florida,
W77-11248 1022 5C

TURTLES
Retention of a Single Oral Dose of Cadmium in Tissues of the Softshell Turtle, Trionyx Spinifer,
W77-11513 1023 5C

TUSCARAWAS RIVER (OH)
Flood Plain Information: Tuscarawas and Adjacent Tributary Areas, Tuscarawas County, Ohio.
W77-03174 1007 4A

TV-CAMERA
A New Towed Underwater Camera System for Wide-Range Benthic Surveys,
W77-03030 1006 7B

TWEEN 80
Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

TWIN CELL POTENTIAL SWEEP VOLTAMMETRY
Determination of Nanogram Quantities of Carbonyl Compounds Using Twin Cell Potential Sweep Voltammetry,
W77-04573 1009 5A

TWIN LAKES (CO)
Studies of the Benthic Environment of Twin Lakes.
W77-07806 1016 5C

TWO-AXIS METHOD
The Two-Axis Method: A New Method to Calculate Average Precipitation Over A Basin,
W77-03755 1008 2B

TWO CREEKS (WIS)
Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

TWO DIMENSIONAL
Mathematical Models in Hydraulics and Coastal Engineering,
W77-02471 1005 2A

TWO-DIMENSIONAL FLOOD WAVE
Numerical Simulation of a Two Dimensional Flood Wave Propagation Due to Dam Failure,
W77-05450 1011 8B

TWO-MEMBERED ALGAL ASSAY
The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

TWO-PHASE GEOTHERMAL SYSTEMS
Two-Phase, Two-Dimensional simulation of a Geothermal Reservoir,
W77-12674 1024 2F

TWO-REGIME FLOW
Investigation of Two-Regime Well Flow,
W77-02142 1005 4B

TWO RIVERS (WIS)
Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

TWO-STAGE FILTER SYSTEMS
Two-Stage Filtration of Secondary Effluent,
W77-07907 1016 5D

TWO STAGE SYSTEM
An Assessment of Kraft Bleachery Effluent Toxicity Reduction Using Activated Sludge,
W77-09223 1019 5D

TYGART LAKE (WV)
Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

TYNDALL FIGURES (ICE)
The Freezing of Small Tyndall Figures in Ice,
W77-09119 1019 2C

TYNE RIVER
Defusing the Sewage Stinkbomb on the Tyne.
W77-00559 1002 5D

TYPE CURVES
Type Curves for Analysis of Pump Tests in Leaky Strip Aquifers,
W77-07145 1015 2F

Type Curves for Recovery of a Discharging Well with Storage,
W77-09340 1019 2F

TYPIC DYSTRANDEPT SOILS
Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

U S GEOLOGICAL SURVEY
Mapping.
W77-11363 1022 7C

U.S. GEOLOGICAL SURVEY COASTAL PROGRAMS
Directory to U.S. Geological Survey Program Activities in Coastal Areas, 1974-76,
W77-02011 1004 2L

U.S. GEOLOGICAL SURVEY SEWER FLOWMETER
Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

UCA PUGILATOR
DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

UCA PUGNAX
DDT as an Accelerator of Limb Regeneration and Molting in Fiddler Crabs,
W77-06472 1013 5C

UCA SP.
The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-06264 1013 5C

UCHA RESERVOIR (USSR)
Biological Monitoring: Substantiation and Experience in Organization, (In Russian),
W77-02235 1005 5A

UGANDA (LAKE MAHEGA)
Lake Mahega: A Mesotheric, Sulphato-Chloride Lake in Western Uganda,
W77-10759 1021 5C

UINTA BASIN AREA (UTAH AND COLO)
Selected Hydrologic Data, Uinta Basin Area, Utah and Colorado,
W77-08183 1017 7C

UJI RIVER (JAPAN)
On the Relation of the Diatiom FLora and Water Quality in the Uji River Kyoto, (In Japanese),
W77-08089 1016 5

UKRAINE (PRECARPATHIANS)
Distribution of Gas Forming Bacteria in Sulfur Deposits of the Precarpathians, (In Russian),
W77-10640 1021 5B

UKRAINIAN-SSR
Effect of Highly Mineralized Mine Waters on Fish Fauna of Water Bodies of the Steppe Zone of the Ukrainian SSR, (In Russian),
W77-04721 1010 5C

ULMENER MAAR (GERMANY)
Meromixis in Ulmener Maar (Germany).
W77-07520 1015 5C

ULTIMATE DISPOSAL
Method of Disposing Sludges Containing Soluble Toxic Materials,
W77-03866 1008 5E

The Ultimate Disposal of Sludge,
W77-06114 1013 5D

Gas from Sewage, Sludge Pyrolysis Energy Source Says California Study.
W77-06118 1013 5D

Golar Rubbish, Oil Sludge and Sewage Incinerator.
W77-07911 1016 5E

ULTRA-FILTRATION
Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

ULTRA-VIOLET RADIATION
Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

ULTRAFILTERS
Note on the Trace Metal Content of Membrane Filters,
W77-10383 1021 5F

ULTRAFILTRATION
Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

The Treatment of Waste Emulsified Oils by Ultrafiltration,
W77-06221 1013 5D

Ultrafiltration Oil Reclamation Process,
W77-07212 1015 5D

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Application of Reverse Osmosis and Ultrafiltration to the Purification of Pulp and Paper Industry Effluents (Zastosowanie odwroconej osmozy i ultrafiltracji do oczyszczania sciekow z przemyslu celulozowo-papierniczego),
W77-09733 1020 5D

Ultrafiltration--The Current State of the Art,
W77-10338 1021 5D

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Oil/Water Separation with Noncellulosic Ultrafiltration Systems,
W77-11913 1023 5G

ULTRAFILTRATION MEMBRANES
Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

ULTRAFILTRATION METHOD
Concentration of Bacteria in Water Using the Ultrafiltration Method, (In French),
W77-07860 1016 5D

ULTRAFILTRATION (SUF)
Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

ULTRASONIC FLOWMETERS
The Application of Ultrasonic Liquid Flow Measurement to the Water and Waste Water Control industry,
W77-10219 1021 8C

ULTRASONIC TRACKING
Behavior of Fish Influenced by Hotwater Effluents as Observed by Ultrasonic Tracking,
W77-04568 1009 5C

ULTRASONIC VIBRATION
Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

ULTRASONICS
Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

Boise Measures Sludge Ultrasonically,
W77-04825 1010 5D

The Application of Ultrasonic Liquid Flow Measurement to the Water and Waste Water Control industry,
W77-10219 1021 8C

Wastewater Flow Measurement in Sewers Using Ultrasound,
W77-11759 1023 7B

PCBs Can Be Made Virtually Harmless.
W77-12336 1024 5D

ULTRAVIOLET DISINFECTION
Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

ULTRAVIOLET METHOD
Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

ULTRAVIOLET RADIATION
Ultraviolet Water Purifier,
W77-01234 1003 5F

On Spent Liquor of Semichemical Pulping (V). Improvement of the Color Removal Efficiency by the Photochemical Treatment (SCP haieki ni tsuite (V). Shigaisen shori ni okeru shosha koritsu no kojo),
W77-02008 1004 5D

Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

Ultraviolet Purification System.
W77-03467 1007 5A

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

Ultra-Violet Absorption Characteristics of Waters in an Industrialized Estuary,
W77-10145 1021 5C

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

Ultraviolet Light Enhances Ozonization of Organics Dissolved in Wastewater.
W77-11749 1023 5D

A Preliminary Study of the Toxic Effects of Irradiated Vs. Non-Irradiated Water Soluble Fractions of No. 2 Fuel Oil,
W77-12869 1024 5C

Oxidation of Refractory Organics in Aqueous Waste Streams by Hydrogen Peroxide and Ultraviolet Light,
W77-12924 1024 5D

UMATILLA INDIAN RESERVATION (ORE)
Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

UMATILLA RIVER BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umatilla Drainage Basin,
W77-06602 1014 2G

UMGENI RIVER
Umgeni River Catchment Analysis,
W77-01488 1003 4D

UMPQUA DRAINAGE BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Umpqua Drainage Basin, Appendix I-16,
W77-07621 1016 2G

UN-IONIZED AMMONIA
Ammonia Toxicity,
W77-10946 1022 5C

UNAPPROPRIATED WATER
Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

UNCERTAINTY
Economic Optimum Record Length,
W77-00117 1001 4A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

UNCERTAINTY PRINCIPLE
Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

UNCONFINED GROUNDWATER SYSTEMS
Modeling of Unconfined Ground-Water Systems,
W77-10661 1021 2F

UNCONFORMITIES
Using Unconformities to Locate Wells,
W77-04133 1009 8E

UNCONSOLIDATED AQUIFERS
Drilling Mud Invasion of Unconsolidated Aquifer Materials,
W77-00438 1001 8B

Hydraulic Design Data for Water Wells in Unconsolidated Sediments,
W77-10377 1021 8B

UNDERFLOW
Underflow from Sludge-Irrigated Cropland,
W77-07056 1014 5B

UNDERGROUND DISPOSAL
Prefabricated Panels for Sub-Surface Sewage Effluent and Waste Water Disposal,
W77-08091 1016 5E

UNDERGROUND STORAGE
Deep Well Wastes May be Water Hazards.
W77-01083 1003 5B

Effect of Dip on the Subsurface Storage or Disposal of Fluid in Saline Aquifers,
W77-08204 1017 4B

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

Storage of Treated Sewage Effluent and Storm Water in a Saline Aquifer, Pinellas Peninsula, Florida,
W77-12377 1024 5E

Underground Reservoirs to Control the Water Cycle,
W77-12667 1024 2F

Water Projects Go Underground,
W77-12886 1024 4B

UNDERGROUND STREAMS
Remote Sealing of Mine Passages Containing Flowing Water,
W77-08896 1018 5G

Underground Waters.
W77-11203 1022 6E

The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

Law of Ground Water in Pennsylvania,
W77-12887 1024 4B

UNDERGROUND STRUCTURES
Clarifier for Underground Use,
W77-10081 1020 5D

UNDERGROUND WASTE DISPOSAL
Deep Well Wastes May be Water Hazards.
W77-01083 1003 5B

Hydrology of the Solid Waste Burial Ground, As Related to the Potential Migration of Radionuclides, Idaho National Engineering Laboratory,
W77-03874 1008 5B

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Storage of Low-Level Radioactive Wastes in the Ground: Hydrogeologic and Hydrochemical Factors,
W77-09086 1018 5E

Miami Plans Injection Well for Wastewater Disposal.
W77-10619 1021 5E

UNDERGROUNDS STORAGE
Role of the Heat Storage Well in Future U.S. Energy Systems,
W77-04145 1009 4B

UNDERSEEPAGE
Seepage Under Structure on N Strata of Soil,
W77-08843 1018 2F

The Effect of Catchment Geochemistry and Geomorphology on the Productivity of a Tropical African Montane Lake (Little Connemara Dam No. 3, Rhodesia),
W77-11414 1022 5C

UNDERWATER
Pore Pressures Near Moving Underwater Slope,
W77-01879 1004 8D

Problems Associated with Construction of Submarine Pipelines,
W77-07349 1015 8D

Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

Concrete Properties at Ocean Depths,
W77-11779 1023 8F

UNDERWATER EXPLOSIONS
A Chemical Monitoring Program of the Explosion Products in Underwater Explosion Tests,
W77-09242 1019 5G

UNDERWATER HABITATS (SUBLIMNOS)
Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

UNDERWATER VISIBILITY
Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

UNDRAINED PORE PRESSURES
Undrained Behavior of Embankments on New Liskeard Varved Clay,
W77-03108 1007 8D

UNEMPLOYMENT
A Dynamic Balanced Regional Input-Output Model of Pollution Control,
W77-04209 1009 5G

UNESCO
Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

UNGAGED STREAMS
Magnitude and Frequency of Floods in North Carolina: Technique for Estimating the Magnitude and Frequency of Floods on Natural Streams in North Carolina,
W77-00480 1001 2E

UNI-FLEX RIG COMPANY (ALBERTA CANADA)
New Rig Concept Uses Continuous Drill String.
W77-07298 1015 8G

UNIFORM FLOW
Missouri River Temperature Effects in the Transition from Dunes to Plane Bed,
W77-10572 1021 2E

UNIFORMITY COEFFICIENT
Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Traveling Gun Application Uniformity in High Winds,
W77-11403 1022 3F

Evaluation of Nonuniformity in Irrigation and Yield,
W77-12628 1024 3F

UNIFORMITY DOCTRINE
Oil and Water--A New Look at the Uniformity Doctrine,
W77-08125 1017 6E

UNIONIDAE
Characteristics of the Distribution of Mollusks of the Family Unionidae in the Kremenchug Reservoir, (In Russian),
W77-02921 1006 2H

UNIONS
Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

UNIT HYDROGRAPHS
A Stable Estimator for Linear Models: 2. Real World Hydrologic Applications,
W77-00640 1002 2E

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

On the Derivation of Linkage Equations for Laguerre Function Coefficients,
W77-05794 1012 2B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-07072 1014 5B

Planning for Urban Stormwater Control,
W77-11669 1023 5G

Determination of Instantaneous Unit Hydrographs By Least Squares Polynomials,
W77-12086 1023 2E

The Velocity Assumption Behind Linear Invariable Watershed Response Models,
W77-12105 1023 2A

UNITED KINGDOM
New Acton Grange Works.
W77-00061 1001 5D

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

Suspended Sediment Production and Building Activity in a Small British Basin,
W77-02792 1006 4C

Normal-Mode Analysis of the Structure of Baseflow Recession Curves,
W77-03313 1007 2F

How Should Industry View Pollution Charges,
W77-04557 1009 5G

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
W77-07633 1016 6G

The Representation of a Short Period of Experimental Catchment Data by a Linear Stochastic Difference Equation,
W77-07646 1016 2

Some Applications of Stochastic Flow Generation,
W77-07647 1016 2A

Stochastic Analysis of Velocity Fluctuations in a Natural Stream Channel,
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Problems Encountered in Synthetic River Flow Generation Procedures,
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Reorganizing Pollution Control in the U.K.
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Ecological Studies on Algal-Lysing Bacteria in Fresh Waters,
W77-09469 1019 5C

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
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A Hydrological Model with Physically Realistic Parameters,
W77-10428 1021 2A

A Mathematical Model for Urban Runoff,
W77-10434 1021 2A

A Method of Estimating the Probability of Occurrence of Snow Water Equivalents in the United Kingdom,
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UNITED NATIONS
Protection of the Marine Environment from Pollution,
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The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
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A Sweeping Sea Law in 1976.
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Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
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LOS III: Prospects and Problems,
W77-04353 1009 6E

The Public Trust Doctrine: A Viable Approach to International Environmental Protection,
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National Systems of Water Administration.
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Maritime Law: To Fish or Cut Bait.
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A 200-Mile Limit to Protect U.S. Fishing Rights, and Now, U.S. Gets Its Own 200-Mile Limit,
W77-04918 1010 6E

A View of Caracas,
W77-05032 1010 6E

The International Seabed and the Single Negotiating Text,
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The New Equity in the Law of the Sea,
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The Environmental Problem of the Oceans: An International Stepchild of National Egotism,
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Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
W77-08378 1017 6E

Conclusions and Recommendations for the United Nations Water Conference (Preliminary Outline),
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Evolution of Coastal State Jurisdiction: A Conflict Between Developed and Developing Nations,
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Law of Sea: New and Lasting Theories, Concepts Produced in Last Eight Years,
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Conference on Law of Sea Will Seek to Reach Accord on Host of Complex Issues.
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Law At Sea,
W77-11175 1022 6E

UNITED NATIONS CONFERENCE ON HUMAN SETTLEMENTS
Community Water Supply and Excreta Disposal in the Developing Countries,
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UNITED NATIONS ENVIRONMENT PROGRAMME
Emerging Legal Concepts in the Harmonization of Water Resources Development and Environmental Protection,
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UNITED NATIONS LAW OF THE SEA CONFERENCE (1973)
Toward a National Ocean Policy: 1976 and Beyond,
W77-04920 1010 6E

UNITED NATIONS WATER CONFERENCE
Conclusions and Recommendations for the United Nations Water Conference (Preliminary Outline),
W77-08965 1018 6E

UNITED STATES
Infant Mortality and Water Hardness in the United States,
W77-00698 1002 5G

Model Water Resources Program,
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Directory to U.S. Geological Survey Program Activities in Coastal Areas, 1974-76,
W77-02011 1004 2L

Surveying America's Lakes.
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The Annual Volume of U.S. Precipitation and its Variations for the Period 1931-1971,
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Water Quantity Requirements for Public Supplies and Other Uses,
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National Program for Managing Flood Losses: Guidelines for Preparation, Transmittal, and Distribution of Flood-Prone Area Maps and Pamphlets,
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Unions Fight a Jones Act Waiver.
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A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
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Impact of Stormwater Runoff on Receiving Water Quality,
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Proposals for Improving the Management of International River Basins,
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Assessment of Geothermal Resources of the United States--1975.
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Hydrology,
W77-07494 1015 2A

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Environment and Regional Planning, A Pilot Study of the Committee on the Challenges of Modern Society,
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States' Rights in the Outer Continental Shelf Denied by the United States Supreme Court,
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The Management of International Boundary Waters of Canada and the United States: A Comparative Study,
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Preliminary Summary of the 1976 Atlantic Margin Coring Project of the U.S. Geological Survey,
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Federal Plan for Acquisition of Water Data by Federal Agencies, Fiscal Year 1977.
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Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
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Radiological Impacts of Releases from Nuclear Facilities into Aquatic Environments-USA Views,
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Ecological Modeling.
W77-10841 1022 6A

United States Approaches to the Salinity Problem on the Colorado River,
W77-11170 1022 6E

Adequacy of Dredging Methods and Equipment in the United States for Maintenance of Navigable Waters,
W77-11595 1023 8G

The Scales of Hail,
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UNITED STATES

Maximum Floodflows in the Conterminous United States,
W77-12156 1023 7C

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

Acid Precipitation: Our Understanding of the Phenomenon,
W77-12811 1024 5A

UNIVARIATE PROBABILITY MODEL
A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

UNIVERSAL COUPLINGS
Universal Coupling for Movable Irrigation Pipes,
W77-08875 1018 3F

UNIVERSAL SOIL LOSS EQUATION
Current Methods Used in the Soil Conservation Service to Estimate Sediment Yield,
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Evaluation of Sediment Yields Due to Urban Development,
W77-07705 1016 4D

UNIVERSITIES
Graduate Education Opportunities in Water Resources in the State of Minnesota.
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Water Resource Problems and Research Needs of North Carolina,
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UNIVERSITY
Water Resources Research Interests in the Colleges and Universities of North Carolina.
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UNOX
The Use of Industrial Oxygen in the Activated Sludge Process,
W77-06204 1013 5D

Report on the Test Carried Out at the Munich-Grosslappen Sewage Works, Using the Oxygen Aeration Process,
W77-06208 1013 5D

UNOX SYSTEM
Oxygen System Activated Sludge Process.
W77-08575 1017 5D

UNREGULATED STREAMS
Technique for Estimating Magnitude and Frequency of Floods in Kentucky,
W77-05752 1012 4A

UNSATURATED FLOW
Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Transient Drainage with Nonlinearity and Capillarity,
W77-01633 1004 2F

Transient Movement of Water and Solutes in Unsaturated Soil Systems, Phase II,
W77-02189 1005 2G

Unsaturated Zone and Vertical-Flow Components in Draining Unconfined Formations,
W77-04000 1008 2F

Experimental Test of the Langevin Equation as a Model for Water Flow Through Unsaturated Soil,
W77-04397 1009 2G

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

Infiltration Analysis and Perturbation Methods 3. Vertical Infiltration,
W77-04751 1010 2G

Derivation of Equations for Rainfall Infiltration,
W77-05182 1011 2G

A Method for Computing and Comparing Upward Flow of Water in Soils From a Water Table Using the Flux/Unsaturated Conductivity Ratio,
W77-05533 1011 2G

Soil Water Regimes Near Porous Cup Water Samplers,
W77-05964 1012 2G

Saturated and Unsaturated Flow to Parallel Drains,
W77-07552 1015 4A

Finite Element Solution of the Two-Dimensional Unsaturated Flow Equation,
W77-08923 1018 2G

Water Movement Through Pedal Soils II. Unsaturated Flow,
W77-10314 1021 2G

Modeling Soil Water Movement for Trickle Irrigation - Phase II,
W77-12256 1024 2G

UNSATURATED SOILS
Comments on Nitrate Reduction in Unsaturated Soil,
W77-09650 1020 2G

UNSATURATED ZONE
Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

UNSTEADY FLOW
Equalization of Time Variable Waste Loads,
W77-00052 1001 5D

Modeling Infiltration and Redistribution of Soil Water During Intermittent Application,
W77-00093 1001 2G

Unsteady Flow of Water through Soils Drained by Parallel Ditches, (In French),
W77-01219 1003 2G

Mathematical Modeling for Water Quality Management in Streams Under Unsteady Hydraulic Conditions,
W77-01946 1004 5B

Prediction of Mound Geometry Under Recharge Basins,
W77-02144 1005 2F

Effects of Flood Flows on Water Quality of Tioga-Hammond Lakes; Hydraulic Model Investigation,
W77-02931 1006 5B

Hybrid Computer Model of St. Venant Equations,
W77-03832 1008 2E

Unsteady Stratified Circulation in a Cavity,
W77-04003 1008 2H

Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
W77-05931 1012 5B

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

Some Computational Aspects of One- and Two-Dimensional Unsteady Flow Simulation by the Method of Characteristics,
W77-08745 1018 2E

Computation of Unsteady Flows in Rivers and Estuaries by the Method of Characteristics,
W77-09993 1020 2E

UNSTEADY TEMPERATURE DISTRIBUTION
Modeling of Unsteady Temperature Distribution in Rivers with Thermal Discharges,
W77-01144 1003 5B

UNSTRATIFIED-BED FILTRATION
Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

UPLANDS
Coastal Zone Boundaries.
W77-02685 1006 2L

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

UPPER ARROYO GRANDE BASIN (CALIF)
Sediment Discharge in the Upper Arroyo Grande and Santa Rita Creek Basins, San Luis Obispo County, California,
W77-00487 1001 2J

UPPER CHESAPEAKE BAY
Upper Bay Survey, Vol. I. Executive Summary,
W77-12785 1024 5B

Upper Bay Survey Vol. IV. Numerical Modeling,
W77-12786 1024 5B

UPPER COLORADO RIVER BASIN COMPACT
Treaties Concerning Colorado River,
W77-06075 1012 6E

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Columbia Basin Salmon and Steelhead Analysis, Summary Report,
W77-05077 1010 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973,
W77-07722 1016 5B

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Hydrologic Evaluation of the Upper Duchesne River Valley, Northern Uinta Basin Area, Utah,
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Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
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Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

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Strip-Mining Techniques to Minimize Environmental Damage in the Upper Missouri River Basin States,
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Upper Niobrara River Compact.
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Mean Annual Runoff in the Upper Ohio River Basin, 1941-70, and its Historic Variation,
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The Circulation and Salinity Distribution of the Upper Potomac Estuary,
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Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
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Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
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Flood Plain Information: Upper River Rouge, Farmington, Michigan.
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Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
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The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

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Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

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Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

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Predicting Attainable Irrigation Efficiencies in the Upper Snake River Region,
W77-09137 1019 3F

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Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
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UPPER VISTULA RIVER (POLAND)
Mathematical Model of the River-Bed Erosion Below a Dam,
W77-12111 1023 2J

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Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

UPWELLING
A Cyclesonde View of Coastal Upwelling,
W77-00654 1002 2L

Wave Propagation During the Ghana Upwelling,
W77-02801 1006 2L

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
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Current Profiles in the Canary Current Upwelling Region Near Cape Blanc, March and April 1974,
W77-05156 1011 2L

Intermittent 'Full' Upwelling in Lake Ontario,
W77-05973 1012 2H

A Note on Volumetric Considerations of Upwelling in the Benguela Current,
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Exchange Through a Barrier Island Inlet: Additional Evidence of Upwelling Off the Northeast Coast of North Carolina,
W77-06654 1014 2L

Circulation and Hydrographic Structure Over the Ghana Continental Shelf During the 1974 Upwelling,
W77-06893 1014 2L

Red Tide in the Upwelling Region of Baja California,
W77-07169 1015 5C

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Upwelling in a Model of an Intermontane Lake,
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Effect of Industrial Activity on River Runoff in the Central Ural,
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Study of the Ural River Benthos, (In Russian),
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Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
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URAL RIVER BASIN (USSR)
Causes of the Drying up of Forests in the Flood Plain of the Lower Reaches of the Ural River, (In Russian),
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URANIUM
Method of Evaluating the Content of Natural Radioactive Isotopes of the Uranium and Thorium Series in Drinking Water and Food, (In Russian),
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Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Content of Lithium, Uranium and Thorium in Mineral Springs of the Nakhichevan ASSR, (In Russian),
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Determination of Uranium in Natural Water by Preconcentration on Anion-Exchange Resin and Delayed-Neutron Counting,
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The Use of Ion Exchange Methods to Determine Trace Elements in Natural Waters: IV. Uranium, Cobalt and Cadmium, (In German),
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URANIUM MILLING
Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

URANIUM MINING
Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

URANIUM MINING AND MILLING
Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

URANIUM PROSPECTING
Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

URANIUM RADIOISOTOPES
Effects of Uranium Mining and Milling on Ground Water in the Grants Mineral Belt, New Mexico,
W77-01923 1004 5C

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

Dissolved Helium in Lakes: Uranium Prospecting in the Precambrian Terrain of Central Labrador,
W77-07174 1015 5A

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

URBAN AREAS
Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Community Water Supply and Excreta Disposal in the Developing Countries,
W77-07865 1016 5G

Sewage Treatment in Developing Countries,
W77-08635 1018 5D

The Prediction of the Rainfall-Runoff Behavior in Urban Areas (Zur Prognose des Niederschlag-Abflussverhaltens in urbanen Einzugsgebieten),
W77-10581 1021 4A

URBAN CHANNELS
The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

URBAN DEVELOPMENT
Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Optimal Layout and Design of Storm Sewer Systems,
W77-08334 1017 5D

Dynamics of Urban Development on Flood Plains,
W77-10179 1021 4A

URBAN DRAINAGE
Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

A Regional Stormwater Drainage Model,
W77-00940 1002 4A

An 'Environmental' Approach to Stormwater Management in the Adelaide Hills (Australia),
W77-00953 1002 4A

Kerbs and Channels,
W77-01389 1003 8F

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
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The Biology and Chemistry of a Warm-Water Stream,
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Least Cost Control Strategies in Urban Drainage Design – A Dynamic Programming Approach,
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Optimization Model for the Design of Urban Flood-Control Systems,
W77-04179 1009 2E

Problems and Possibilities in Urban Drainage,
W77-05248 1011 5D

A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
W77-05369 1011 5B

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

Integrated Approach to Urban Waste Water Management,
W77-07095 1014 5D

Penn State Urban Runoff Model–User's Manual,
W77-07797 1016 4D

Treating Urban Drainage as a Utility,
W77-07947 1016 5G

Urban Drainage and Flood Control Projects: Economic, Legal, and Financial Aspects,
W77-08345 1017 6B

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

URBAN DROUGHT
Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

URBAN ESTUARY
Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

URBAN GROWTH
Water–An Element of Land-Use and Urban Growth Policies,
W77-08872 1018 6B

URBAN HYDROLOGY
Planning and Construction of Birmingham's Main Outfall Sewer,
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Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Synthetic Design Hyetograph and Rational Runoff Coefficient,
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Characterization of Urban Runoff,
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Maryland Highway Drainage Study: Volume III - A Linked System Model for the Synthesis of Hydrographs in Urban Areas,
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The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
W77-03314 1007 4C

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
W77-07612 1016 4C

The Effects of Urbanization on Low Flows and Total Runoff,
W77-08335 1017 2A

Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
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A Catchment Simulation Model Developed for Urban and Urbanising Catchments with Particular Reference to the Use of Automatic Optimization Techniques,
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Water-Quality Effects from Urban Runoff,
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Urban Runoff Digital Computer Model,
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URBAN MAPPING
Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
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Residual Waste: Model State Legislation,
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Polluted Groundwater: A Review of the Significant Literature,
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A Hydrometeorological Research Program,
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Physical-Chemical Treatment Improves Iran's Urban Runoff,
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Urban Stormwater Detention and Flow Attenuation,
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Measurement of Urban Runoff Petroleum,
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The Mathematical Modelling of Rivers,
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Development of a Continuous Urban Rainfall-Runoff Model,
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Man's Effect on the Quality of Our Water,
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Salt Storage and Runoff in Urban Watershed,
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Flood Measurements in an Urban Environment: A Data User's Viewpoint,
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Characterization of Urban Runoff - New Jersey,
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Some Consequences of Area Wide Runoff Control Strategies in Urban Watersheds,
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Relation Between Atmospheric Pollution, Precipitation, and Streamwater Quality Near A Large Urban-Industrial Complex,
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Instrumentation for Field Studies of Urban Runoff,
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Stormwater Management Looks to Natural Drainage.
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Stormwater Tunnel Cuts Drainage Costs.
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Quantity Aspects of Urban Stormwater Runoff,
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Impact of Stormwater Runoff on Receiving Water Quality,
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Introduction to Urban Stormwater Runoff Models,
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Simplified Methods of Computing the Quantity of Urban Runoff,
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Selected Case Studies Using Stormwater Management Models – Quanitity aspects,
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Non-Point Sources of Water Pollution.
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A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
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Pollutional Characteristics of Urban Snowmelt Runoff,
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Basic Data on Urban Storm-Water Quality, Portland, Oregon,
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A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
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Application of a Transient Flow Model to Coordinate Urban Storm Runoff Data with Flow in a Receiving Reservoir,
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Quality Characteristics of Urban Storm Water in Sydney, Australia,
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London's Stormwater Problem,
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Introduction to Urban Storm Water Runoff Models,
W77-07071 1014 5B

Simplified Methods of Computing the Quantity of Urban Runoff,
W77-07072 1014 5B

The WRE Storm Model,
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Evaluation of Sediment Yields Due to Urban Development,
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Treating Urban Drainage as a Utility,
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The Effects of Urbanization on Low Flows and Total Runoff,
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Water Quality Impacts of Urbanization–A Methodology,
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Design Efficiency of Stormwater Detention Basins,
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Characterization of Urban Runoff in Greenfield, Massachusetts–Phase I,
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Qualitative and Quantitative Changes in the Benthic Fauna of a Trout Stream, the Couze Pavin Puy-De-Dome, Caused by Agricultural and Urban Pollution, (In French),
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Urban Stormwater Pollutant Loadings: A Statistical Summary Through 1972,
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Modeling Urban Runoff from a Planned Community,
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Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
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Malvern Urban Test Catchment, Volume I,
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Urban Water Runoff and Water Quality Control,
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Urban Runoff Pollution Control–Technology Overview,
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Problems and Policy Alternatives: Urban Areas,
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A Mathematical Model for Urban Runoff,
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The Application of Surface Water Rules in Urban Areas,
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Urban Runoff and Combined Sewer Overflow,
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A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
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Microorganisms in Urban Stormwater – A U.S. Environmental Protection Agency Program Overview,
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Potential Value of Treatment of Urban Stormwater,
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Water-Quality Effects from Urban Runoff,
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Urban Runoff Digital Computer Model,
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Storm Water Management Model: Level I - Preliminary Screening Procedures,
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Urban Runoff Characteristics: Volume I - Analytical Studies,
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Catchbasin Technology Overview and Assessment,
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Countermeasures for Pollution from Overflows; The State of the Art,
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Quality of Urban Freeway Storm Water,
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Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
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Urban Sediment Problems: A Statement on Scope, Research, Legislation, and Education.
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Open Space and Urban Water Management - Phase II: Case Studies and Findings,
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An Optimization Model for Efficient Management of Urban Water Resources,
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Future Directions in Urban Water Modeling,
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URBAN WATERSHED MANAGEMENT
Future Direction of Urban Water Models,
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Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
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Some Consequences of Area Wide Runoff Control Strategies in Urban Watersheds,
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Urban Hydrological Modeling and Catchment Research in Canada,
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Effect of Land Use Management on Flood Predictions,
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URBANISATION
Case Study of Effect of Increased Urbanisation on Flood Damage for Moggill Creek, Brisbane (Australia),
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An Overview of Urban Sedimentology,
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Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
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Erosion Potential of Soils,
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Geohydrology of the Lowland Lakes Area, Anchorage, Alaska,
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Urban Storm Water Runoff: A Two-Fold Problem,
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Application of a Parametric Model to Simulate Flows from an Urban Watershed,
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Urbanization and the Processes of Erosion and Sedimentation in the River Nile,
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Increase of Sediment Transport Due to Large-Scale Urbanization,
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Suspended Sediment Production and Building Activity in a Small British Basin,
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Effect of Land Development on Soil Erosion and Sediment Concentration in an Urbanizing Basin,
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Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
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The Response of Natural Channels to Urbanization: Two Case Studies from Southeast England,
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Water Resources of El Paso County, Colorado,
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Sediment-Control Methods in Urban Development: Some Examples and Implications,
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The Gallatin Area; A Summary Report,
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Stage, Discharge and Quality Changes in a Water Table Aquifer Related to Urbanization,
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Spatial and Temporal Changes in the Primary Productivity of Lake Tahoe, California-Nevada Between 1959 and 1971,
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Floodflow Formulas for Urbanized and Nonurbanized Areas of Connecticut,
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Penn State Urban Runoff Model–User's Manual,
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Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee,
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The Effects of Urbanization on Low Flows and Total Runoff,
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Quantitative and Qualitative Implications of Urban Storm Runoff Abatement Measures,
W77-08602 1018 5G

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Network Characteristics in Suburbanizing Streams,
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Seasonal Variations in the Impact of Suburban Development on Runoff Response: Peterborough, Ontario,
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Man's Effect on the Fishes of the Upper Shetucket River System,
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Flood-Plain Delineation for Difficult Run Basin, Fairfax County, Virginia,
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Optimal Systems of Storm Water Detention Basins in Urban Areas,
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Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
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Land and Recreational Development at New Jersey Reservoirs,
W77-12257 1024 6G

URCEOLARIIDS
Urceolarids (Ciliata, Peritricha) from Fishes of the Urals, (In Russian),
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URCHINS
Relationships Between Heavy Metals and Major Cations Along Pollution Gradients,
W77-12033 1023 5B

UREAFORM
Initial Release of Nitrogen from Ureaform Under Field Conditions,
W77-02279 1005 3F

UREAS
Daily Pattern of Nitrogen Excretion and Oxygen Consumption of Sockeye Salmon (Oncorhynchus Nerka) under Controlled Conditions,
W77-01250 1003 5C

Conventional and Controlled-Release Nitrogen Sources for Rice,
W77-01516 1003 3F

Rates of Urea Hydrolysis in Five Soils of India,
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Effect of Urea and Ammonium Sulphate Applied Before Sowing on Sudangrass Seedlings,
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Ammonia Losses on Urea Fertilization I. Model Experiments on Ammonia Volatilization as Influenced by Soil pH Value, Exchange Capacity, Temperature and Water Content, (In German),
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Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
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Urea and Ammonium Nitrate; Effluent Guidelines and Standards.
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Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus Labrax) During Growth. II. Effects of Starvation on the Excretion of Ammonia and Urea, (In French),
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Application of the Diacetyl-Monoxime Thiosemicarbazide Method to the Analysis of Urea in Estuarine Sediments,
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Effluent Guidelines and Standards for Fertilizer Manufacturing Point Source Category, Urea and Ammonium Nitrate Subcategory.
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Ammonia Volatilization and Nitrogen Utilization from Sulfur-Coated Ureas and Conventional Nitrogen Fertilizers,
W77-09642 1020 3F

Long-Term Evaluation of Slow-Release Nitrogen Sources of Turfgrass,
W77-09978 1020 3C

The Release of Nitrogen from Sulfur-Coated Urea as Affected by Soil Moisture, Coating Weight, and Method of Placement,
W77-10270 1021 2G

An Evaluation of Sulfur-Coated Urea as a Preplant Total Season Nitrogen Supply for Trellised Tomatoes,
W77-10283 1021 3F

Gaseous Loss of Ammonia from Sulfur-Coated Urea, Ammonium Sulfate, and Urea Applied to Calcareous Soil (PH 7.3),
W77-10287 1021 2G

Nitrogen Release from Isobutylidene Diurea: Soil pH and Fertilizer Particle Size Effects,
W77-12127 1023 3F

Evaluation of Sulfur-Coated Urea (SCU) Applied to Irrigated Potatoes and Corn,
W77-12132 1023 3F

Process for Dewatering Sewage Sludge,
W77-12953 1024 5D

UREASE ACTIVITY (SOILS)
Effects of Trace Elements on Urease Activity in Soils,
W77-06165 1013 5C

URIDINE
LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

URINARY CALCULI
Select Minerals and Potable Reuse of Reclaimed Wastewaters,
W77-05930 1012 5F

URINE
Comparative Examination of Enterococci Obtained from Drinking Water, Foodstuffs and Urine, (In German),
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URUGUAY
The Groundwater Resources of Uruguay,
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Activities of the Water Resources Division in California.
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US WATER RESOURCES COUNCIL
History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

USE RATES
Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

USED MOTOR OIL
Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

USER CHARGES
Tolls: Efficiency and Equity Issues for Inland Waterways,
W77-08039 1016 6C

User Charges in Inland Navigation Policy,
W77-08604 1018 6C

USER FEES
Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

USER MANUAL
Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

USSR
Biological Purification of the Izmail Board Mill Effluents (Biologicheskaya ochistka stochnykh vod Izmail'skogo Tsellyulozno-Kartonnogo Kombinata),
W77-00322 1001 5D

Hygienic Problems of Environmental Protection in Connection with the Further Development of Siberia and the Far East, (In Russian),
W77-00349 1001 5G

Effectiveness of Wastewater Treatment at the Shostka 50th Anniversary of the USSR Chemical Plant, (In Russian),
W77-00351 1001 5D

Effect of the Discharge Waters of the Tripol'e Thermal Electric Station of the Thermal Regime of the Dnieper, (In Russian),
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Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

The Effect of Humans on Biogeocenoses and Environmental Protection, (In Russian),
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Zooplankton of the Akstafa Reservoir, (In Russian),
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Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
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Morpho-Ecological Characteristics of the Ide, Leuciscus Idus (Linne), from the Kremenchug Reservoir. (In Russian),
W77-00504 1001 2H

Light-Chestnut Long-Irrigated Soil of the Sharur Plain, (In Russian),
W77-00510 1001 2G

Origin and Use of Rudyak Soils, Ferruginous Solonchaks of the Taiga Zone, (In Russian),
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Feeding of Sheefish in the Upper Ob Above the Dam of the Novosibirsk Hydroelectric Station, (In Russian),
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The Heat Balance in the Forest-Steppe Mesophilic Deciduous High Oak Forest 'Les Na Vorskle' Under Abnormal Weather Conditions, (In Russian),
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Biology of the Snakehead in the Syr Darya Basin, (In Russian),
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Hygienic Evaluation of the State of Protection of a Water Body from Pollution in the Region of an Industrial Complex, (In Russian),
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Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
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Hygienic Aspects of the Central Water Heating, (In Russian),
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The Effect of Bottom Sediments on Formation of Surface Water Composition, (In Russian),
W77-02259 1005 5B

Estimation of Daily Precipitation Over China and the USSR Using Satellite Imagery,
W77-02663 1006 2B

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

Prediction of Erosion Intensification by Man,
W77-02784 1006 4C

The Role of Forest Stands in the Control of Erosion Processes and Other Negative Natural Phenomena,
W77-02785 1006 4D

Evaluation of the Phytoplankton Biomass in Lakes of the World, (In Russian),
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Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
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Effect of Muskrats on Aquatic Vegetation, (In Russian),
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Earth and Rock-Fill Dams: Basis of Their Design and Construction, Second Edition,
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Factors of Soil Salinization During Irrigation in the Turan Lowland, (In Russian),
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Artificial Modification of Atmospheric Processes,
W77-03303 1007 3B

Significance of Nitrates in Drinking Water, (In Russian),
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Precipitation on the Aral Sea Surface, (In Russian),
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Manufacture of Boxboard in a Closed Water Cycle (Proizvodstvo korobochnogo kartona pri zamknutom vodooborote),
W77-03791 1008 3E

Purification of Technical Paper Mill Effluents (Ochistka stochnykh vod fabriki tekhnicheskikh bumag),
W77-03792 1008 5D

Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

Space-Time Correlation Function of the Field of Evaporation from the Water Surface,
W77-03849 1008 2D

Model of the Formation of Rain Floods in the Rioni River Basin and its Use for Short-Range Forecasts,
W77-03850 1008 2E

Use of Satellite Survey Material in Glaciological Investigations,
W77-03851 1008 2C

Standard 'Potable Water' (All-Union State Standard 2874-73, A New Stage in the Development of Water Hygiene, (In Russian),
W77-03853 1008 5G

Role of the Snow Cover in the Nature of Northern Landscapes and Its Physical Properties,
W77-03988 1008 2C

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

Earthquake-Related Change of the Hydrogen Ion Concentration (pH) in Ground Waters,
W77-03990 1008 2K

Alteration of Water Regulating and Protective Features of the Forest Under Influence of Forestry Measures, (In Russian),
W77-04002 1008 4C

Estimation of the Production Potentials of the Phytobenthos in the Northern Donets-Donets Basin Canal,
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Study on the Purification of Sewage Water in Soils of Western Siberia, (In Russian),
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Microbiological Characteristics of the Ros/ River and Some of Its Tributaries, (In Russian),
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Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Causes of the Predominance of Cocci in Bacterio-Plankton of Fish-Breeding Ponds, (In Russian),
W77-04183 1009 5C

Estimation of the Parameters of Catastrophic Mudflows in the Basins of the Lesser and Greater Almatinka Rivers,
W77-04257 1009 2J

Effect of Industrial Activity on River Runoff in the Central Ural,
W77-04258 1009 4C

Estimation of the Depth of Soil Freezing in Drainage Basins in the Central Part of the Northwestern European USSR,
W77-04259 1009 2G

Prospects for Using Ground Water in the Kazakh SSR,
W77-04262 1009 4B

Use of Caspian Sea Water for Irrigation,
W77-04263 1009 3C

Drought Resistance of Larch Species Introduced to the Central Forest-Steppe Region, (In Russian),
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A Bibliography of Soviet Literature on Freshwater Hydrobiology and Related Problems for 1975: Part 20, (In Russian),
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Some Patterns in the Microstructure of the Snow-Depth Field in the Mountain Regions,
W77-06302 1013 2C

Analysis of Snow Temperature Measurements (Based on Data for the Western Tien-Shan),
W77-06303 1013 2C

Snow and Ice Penitents, their Formation Mechanism and Indicative Importance,
W77-06304 1013 2C

Properties of Channel Wandering,
W77-06305 1013 2E

Distribution of Wind-Driven Currents in Bodies of Water and Estimation of the Transport of Water by them,
W77-06306 1013 2H

Degree of Precipitation Irregularity as an Indication of Landscape Zonality,
W77-06307 1013 2B

Natural Contamination of the Firn-Ice Layer of the Abramov Glacier, According to Core Drilling,
W77-06308 1013 2C

Combined Use of Ground and Surface Waters for Irrigation,
W77-06309 1013 3F

Role of Ground-Water in the Formation of the Runoff and Water Chemistry of Rivers in the Lower Tunguska Basin,
W77-06506 1013 2F

Effect of Cryogenic Processes on the Formation of Sodium Bicarbonate Waters,
W77-06507 1013 2K

Annual Amount of Precipitation in the USSR, According to Corrected Data,
W77-06508 1013 2B

Experimental Computation of the Meltwater Volume from the Surface of Glaciers,
W77-06509 1013 2C

Hydrochemical Description of the Glaciers of the Chirchik River Basin,
W77-06510 1013 2C

Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

Methods for the Mathematical Description of the Structure of River Runoff Variations,
W77-07652 1016 2E

Spectral Analysis of the Structure of Hydrological Series,
W77-07653 1016 2E

Spatial and Time Analysis and Estimation of River Flow,
W77-07654 1016 2E

Elements of Runoff Periodicity in Tasks of Modelling,
W77-07655 1016 2E

Cyclical Structure of the Hydrological Series and the Nature of Individual Components,
W77-07656 1016 2E

On Deterministic Components in Natural Streamflow,
W77-07658 1016 2E

New Forms of Correlation Relationships Between Positive Quantities Applied in Hydrology,
W77-07659 1016 2A

Finding Regularities in Long-Term Streamflow Fluctuations by Analysis of Hydrological Ensembles,
W77-07676 1016 2E

Optimal Spatial Interpolation and Its Errors in the Case of Various Distances Between Observation Points or Watershed Centres,
W77-07677 1016 4D

Objective Analysis of Snow Cover Fields,
W77-07678 1016 2C

The Flooding of Rivers in the USSR and the Measures Taken to Control Ice Jams (Les Inondations Fluvizles En URSS Et La Lutte Contre Les Crues Causees Par Les Embacles),
W77-08246 1017 2C

Methods Used for Drilling Wells in the Soviet Union,
W77-08659 1018 8C

Effect of the Boundary Surface Between Sea and Fresh Waters on the Distribution of Dissolved Oxygen in the Mouth Region of the Dnieper River,
W77-08832 1018 5B

Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

Effect of Ponds and Small Reservoirs on River Runoff in the Forest-Steppe and Steppe Zones of the Volga Basin,
W77-08834 1018 4A

Effect of Agricultural and Silvicultural Practices on the Runoff from Drainage Basins of the Nizhnedevitskaya Hydrologic Station,
W77-08835 1018 4C

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

Character of Seepage of Precipitation to the Water Table in the Central Forest Steppe,
W77-09043 1018 4B

Environmental Policy-Making in the USSR: The Role of Industrial and Environmental Interest Groups,
W77-09456 1019 6E

Algoflora of Some Drainage Canals of the Chardzhou Oblast, (In Russian),
W77-09508 1019 2I

Feeding of the Kilka, Clupeonella Delicatula Caspia Morpha Tacharchalensis (Borodin) in the Kuibyshev Reservoir, (In Russian),
W77-09540 1019 2H

Feeding of Fry of Valuable Fishes of the Arakum Water Bodies at Early Stages of Development and Degree of Similarity of their Diet, (In Russian),
W77-09592 1019 2H

Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

Movement of Snow Avalanches,
W77-09716 1020 2C

Mathematical Description of Some Physical Snow Cover Characteristics,
W77-09717 1020 2C

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

Urceolarids (Ciliata, Peritricha) from Fishes of the Urals, (In Russian),
W77-09936 1020 2H

Method for Roughly Estimating the Water Exchange of a Reservoir with an Aquifer Hydraulically Connected with It,
W77-10321 1021 4B

Application of Some Statistical Methods for the Estimation of Minimum Flow,
W77-10420 1021 2E

Mathematical Modelling of the Return Waters Runoff,
W77-10423 1021 4B

Statistical Modelling of River Flow by the Monte Carlo Method and Evaluation of Distribution Parameters and Quantities,
W77-10433 1021 2E

A Mathematical Model of Flood Waves Moving Along a Cascade of Reservoirs on a Large River,
W77-10438 1021 2E

Contribution of the Pulp and Paper Industry to Agriculture (Tsellyulozno-bumazhnaya promyshlennost' -- sel'skomu khozyaistvu),
W77-10702 1021 5E

Genetic Analysis of the Suspended Load Discharge of Mountain Rivers,
W77-10778 1021 2J

Physico-Statistical Model of Rainfall Flood Formation and Determination of Its Parameters,
W77-12100 1023 2A

Mathematical Model of Spring Runoff Formation,
W77-12101 1023 2A

Mathematical Model of the Hydrometeorological Regime Formation of a River Basin,
W77-12102 1023 2A

Mathematical Modelling of the Formation of River Runoff in Mountain Drainage Basins,
W77-12103 1023 2A

Deterministic and Stochastic Modelling of Floods in Mountain Regions,
W77-12104 1023 2A

Modelling Groundwater Resources Replenishment Due to River Flow in the Flood Period During the Operation of Infiltration Water Intake,
W77-12110 1023 2F

Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

Glaciological Data, This Issue: Avalanches.
W77-12799 1024 2C

Aerospace Research of the Environment. Geobotany, Soil Science, and Hydrology.
W77-12820 1024 7B

USSR (BUKHARA OASIS)
Corn Cultivation in the Sand of the Bukhara Oasis, (In Russian),
W77-09496 1019 3F

USSR (CENTRAL KARA KUM)
Water Regime of Central Kara Kum Soils in Connection with Rangeland Afforestation, (In Russian),
W77-04855 1010 2G

USSR (DNIEPER RIVER)
The Effect of Hydrotechnical Construction on the Parasites of the Deniper River, (In Russian),
W77-06323 1013 5C

Hydrochemical Conditions of the Dnieper in the Region of the Tripol'ye State Regional Electric Power Station, (In Russian),
W77-12613 1024 5B

USSR (DNIESTER ESTUARY)
Zooplankton of the Dniester Estuary and Adjacent Seaside Under Anthropogenic Influences, (In Russian),
W77-12977 1024 5B

USSR (DONETS BASIN)
The Decomposition Rate of Organic Matter of Stephanodiscus Hantzschii Grun. From the Channel of the Northern Donets Basin, (In Russian),
W77-12971 1024 5B

USSR (DUKANT RIVER BASIN)
Relation of Some Meteorological Elements to Avalanching in the Dukant River Basin (Western Tien-Shan),
W77-09718 1020 2C

USSR (GOLODNAYA STEPPE)
U.S.S.R.: Golodnaya (Hungry) Steppe, (Case Study of Desertification).
W77-12825 1024 3C

USSR (ISELTI RIVER)
Chironomid Fauna of the Upper Course of the Iseti River, (In Russian),
W77-09048 1018 5C

USSR (IVAN'KOVSKY RESERVOIR)
Planktonic Ciliates in the Ivan'kovo Water Reservoir, (In Russian),
W77-10010 1020 5C

USSR (IVANKOVO RESERVOIR)
Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

USSR (IZHEVSK RESERVOIR)
The Major Plant Formations of the Izhevsk Reservoir and Their Productivity, (In Russian),
W77-12325 1024 2H

USSR (KAKOVKA RESERVOIR)
Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

USSR (KALMYK STEPPE)
Plant Indicators of Hydrochemical Conditions of Limans of the Kalmyk Steppe, (In Russian),
W77-12991 1024 2H

USSR (KARA KUM CANAL)
Salt Composition of Water from the Western (Kurtli) Reservoir, (In Russian),
W77-05101 1011 2H

USSR (KARAKUM)
Determination of Dug Well Debit Under Conditions of Desert Pasture Lands, (In Russian),
W77-09310 1019 4B

USSR (KAZAKH SSR)
Characteristics of the Zooplankton of the Lower Reaches of the Irgiz and Turgay Rivers, (In Russian),
W77-09940 1020 5C

USSR (KAZAN)
Hygienic Effectiveness of Measures for Decontaminating Effluents at Petrochemical Plants, (In Russian),
W77-07069 1014 5D

USSR (KIEV RESERVOIR)
Ecology of Encrusting Microfauna of Higher Aquatic Plants of the Kiev Reservoir, (In Russian),
W77-12365 1024 2H

Production Level of the Amphipods Pontogammarus Maeoticus (Sow.) and P. Crassus (G.O. Sars) in the Reservoirs of the Dnieper, (In Russian),
W77-12415 1024 2H

Ecology of the Amphipod Pontogammarus Crassus (G. O. Sars) in the Kiev Reservoir, (In Russian),
W77-12930 1024 2H

The Effect of Algal Food on the Growth, Fertility and Life Span of Bosmina Longirostris (O.F. Muller), (In Russian),
W77-12985 1024 2H

USSR (KREMENCHUG RESERVOIR)
Effect of Parasites on the Condition and Growth of Young Fish of the Kremenchug Reservoir, (In Russian),
W77-09278 1019 2I

USSR (KUZNETSH BASIN)
Solid Flow Products of the Eroded Leach Chernozems of the Kuznetsk Basin, (In Russian),
W77-04915 1010 2J

USSR (LAGOON OF KURSIU MARIOS)
Development of Plankton Organisms of an Eutrophic Reservoir and their Interaction with a Radioactive Environment, (In Russian),
W77-11020 1022 5C

Activity of Hydrolytic Enzymes in Water and Biomass of Planktonic Organisms in a Reservoir of an Eutrophic Type in the Lagoon of Kursiu Marios, (In Russian),
W77-11509 1023 5C

USSR (LAKE BUGAEVO)
The Biology of Daphnia Magna Straus and the Production of Its Population in Lake Bugaevo (Krasnoyarsk Krai), (In Russian),
W77-12616 1024 2H

USSR (LAKE DAL'NEYE)
Bottom Microflora and Benthos of Lake Dal'Neye (Kamchatka), (In Russian),
W77-12988 1024 5C

USSR (LAKE DALNEE)
Study of the Production Process of Daphnia Longiremis Sars Population from Lake Dalnee by Means of a Mathematical Model, (In Russian),
W77-04055 1008 5C

USSR (MEANA-CHAACHIN PLAINS)
Characteristics of the Meana-Chaachin Plain Soil-Forming Process, (In Russian),
W77-09502 1019 2G

USSR (MOSCOW)
A Hygienic Evaluation of Boron in Potable Waters, (In Russian),
W77-10582 1021 5C

USSR (MOSCOW OBLAST VALLEYS)
Determination of Optimal Soil Moisture Conditions for Grass Stands in the Dry Valleys of the Moscow Oblast (USSR), (In Russian),
W77-12995 1024 2G

USSR (NORTH CAUCASUS)
Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

Ecological Significance of Water Turbidity Exemplified by Ponds of the North Caucasus, (In Russian),
W77-04861 1010 5B

USSR (NORTHEAST CHERNIGOV TERRITORY)
Ecological and Topographic Series of Vegetation of Erosion Forms of Relief in the Northeast of the Chernigov Territory, (In Ukranian),
W77-09622 1020 2I

USSR (NORTHERN CAUCASUS)
Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

USSR (NORTHERN MUGAN)
Change of Salinity with Different Distances Between Drains Under Conditions of Northern Mugan, (In Russian),
W77-09630 1020 3C

USSR (OB RIVER)
The Effect of Erosion on the Water and Physicochemical Properties of Soil on the Altai Mountain Slopes Near the OB River (USSR), (In Russian),
W77-12543 1024 2J

USSR (ODESSA BAY)
Lipolytic Enterobacteria of the Odessa Bay Littoral Zone, (In Ukranian),
W77-12974 1024 5C

USSR (OZERNINSK RESERVOIR)
Air Composition in Shoal and Littoral Soils of the Ozerninsk Reservoir, (In Russian),
W77-04906 1010 2G

USSR (POLAZNENSKY DEPOSIT)
Biogenic Elements and Sulfate Reduction in Water Oil Carbonate Layer, (In Russian),
W77-07040 1014 5B

USSR (REPETEK RESERVE LANDS)
Moisture Regime of Sandy Desert Soils, (In Russian),
W77-04795 1010 2G

USSR (ROVNO)
Use of the Experimental Water Stabilization Station at the Novomyl'sk Water Intake in Rovno, (In Russian),
W77-12893 1024 8G

USSR (SEVERSKII DONETS RIVER VALLEY)
The Effect of the Use of Pesticides and Fertilizers in the Water Protection Zone with Sources of Artificial Replenishment of Underground Water Reserves, (In Russian),
W77-07107 1015 5B

USSR (SOUTHEASTERN CISCAUCASIA)
Present-Day Slumping and Erosion Phenomena on Irrigated Lands (Exemplified by Southeastern Ciscaucasia), (In Russian),
W77-08885 1018 2J

USSR (STEPPE ZONE)
Water Supply and Amino Acid Composition of Sunflower Proteins, (In Russian),
W77-01878 1004 3F

USSR (SYR DARYA BASIN)
The Micro- and Mesobenthos of Some Bodies of Water in the Syr Darya Basin, (In Russian),
W77-12992 1024 2H

USSR (TADZHIK SSR)
Change of Organic Substances in Virgin and Arable Cinnamonic Calcareous Mountain Soils Depending on the Degree of their Erosion, (In Russian),
W77-05220 1011 2J

USSR (TAVDA TRANSURAL REGION)
Microbiological Characteristics of Certain Types of Marshy Forests of the Tavda Transural Region, (In Russian),
W77-12016 1023 2G

USSR (TURKM SSR)
Salinization of Newly-Irrigated Desert Soils in the Khauzkhan Tract, (In Russian),
W77-04781 1010 3C

USSR (TURKMEN)
Effect of Soil Reclamation on Hydrophysical Properties of Desert Takyr Soils, (In Russian),
W77-04799 1010 2G

USSR (UCHINSKOYE RESERVOIR)
Primary Production of the Phytoplankton of the Uchinskoye Reservoir, (In Russian),
W77-06332 1013 5C

USSR (VINNITSA OBLAST)
Molybdenum Content in the Subsurface Waters of the Vinnitsa Oblast, (In Russian),
W77-08882 1018 2K

USSR (VOLGA RIVER)
Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

Planktonic Infusoria from the Volga River, (In Russian),
W77-12397 1024 2H

USSR (VOROSHILOVGRAD)
Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

USSR WATER POLLUTION LEGISLATION
Ways of Preventing Thermal Pollution of Water Bodies by Wastewaters of Nuclear Power Plants, (In Russian),
W77-02271 1005 5G

USSR (YAKUTIYA)
Experience in Construction of a Frozen-Type Dam in Yakutiya,
W77-06529 1013 8A

USU BAY
Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

UTAH
Application of a Hydrologic Model to the Planning and Design of Storm Drainage Systems for Urban Areas,
W77-00004 1001 4A

Protection of Aquatic Wildlife.
W77-00992 1002 6E

Utah Lake Diking Project.
W77-01010 1002 6E

Water Conservancy Act.
W77-01011 1002 6E

Appropriation.
W77-01012 1002 6E

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Future Chemical Composition of the Great Salt Lake Brines,
W77-01053 1003 2H

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

Survey of Macroinvertebrate Communities in the Provo River and Diamond Fork Systems,
W77-02548 1005 5C

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Stratified Flow in Great Salt Lake Culvert,
W77-02987 1006 8B

Reproduction by Adfluvial Salmonids in Spawn Creek, Cache County, Utah,
W77-03160 1007 2I

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

General Basis of Water Rights in Utah.
W77-03504 1007 6E

Flood Control Projects and Drought Emergencies.
W77-03505 1007 6E

Water, Lighting and Sewers.
W77-03506 1007 6E

Head Gates; Powers of State Engineer.
W77-03507 1007 6E

Suspension and Restoration of Right to Appropriate.
W77-03508 1007 6E

Irrigation Districts.
W77-03509 1007 6E

Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

The State of Utah Water - 1975,
W77-03559 1007 6B

The State of Utah Water.
W77-03560 1007 6D

Soil Moisture Response to Several Levels of Foliage Removal on Two Utah Ranges,
W77-03629 1008 2G

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

Grazing and Debris Burning on Pinyon-Juniper sites--Some Chemical Water Quality Implications,
W77-04392 1009 5B

Sediment Production and Infiltration Rates as Affected by Grazing and Debris Burning on Chained and Seeded Pinyon-Juniper,
W77-04393 1009 4C

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Water Rights.
W77-06074 1012 6E

Treaties Concerning Colorado River,
W77-06075 1012 6E

Waters; Penalties, Violations,
W77-06078 1012 6E

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

Estimating Runoff Volumes and Flood Hydrographs in the Colorado River Basin, Southern Utah,
W77-06334 1013 4A

Improvement Districts.
W77-06578 1013 6E

Colorado River Compact.
W77-06579 1013 6E

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

Improvement of Planning for Post-Development Water Resource Management: A Study of the Weber Basin Project,
W77-06739 1014 6B

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

Solar Salt Company V Southern Pacific Transportation Company (Alteration of Saline Content of Great Salt Lake is Not Pollution Under Utah Statute).
W77-08146 1017 6E

Sierra Club V Stamm (National Environmental Policy Act Does Not Require Comprehensive Environmental Impact Statement on Large Reclamation Project When EIS have been Prepared for Viable Portion of Project).
W77-08147 1017 6E

Bear River Compact,
W77-08155 1017 6E

Board and Division of Water Resources,
W77-08156 1017 6E

Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

Selected Hydrologic Data, Uinta Basin Area, Utah and Colorado,
W77-08183 1017 7C

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

Great Salt Lake Management and Development.
W77-08407 1017 6E

Prediction Models of Reaeration Rate for Mountain Creeks,
W77-08501 1017 5G

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

Flood Control.
W77-09585 1019 6E

Short Term Sedimentation Response in Lakes in Western United States as Measured by Automated Sampling,
W77-09701 1020 2I

The Functional and Aesthetic Uses of Two Cache Valley, Utah, Canals,
W77-09796 1020 6B

Rural Domestic Water System Peak Flows and Design Innovations,
W77-10176 1021 8B

Artesian Wells.
W77-10500 1021 6E

Ground-Water Conditions in Utah, Spring of 1977,
W77-10864 1022 4B

Effects of Irrigation Management on the Quality of Irrigation Return Flow in Ashley Valley, Utah,
W77-11079 1022 5B

Blacksmith Fork and Spring Creek Flood Plain Information, Millville, Utah.
W77-11843 1023 4A

Summary Appraisals of the Nation's Ground-Water Resources--Great Basin Region,
W77-11873 1023 4B

Water Resources Development by the U.S. Army Corps of Engineers in Utah.
W77-12838 1024 6G

Second Report of the Special Master in the Case of Utah v United States (Concerning Boundaries of Inland Bodies of Water and the Nature of Meander Lines).
W77-12895 1024 6E

UTAH LAKE DRAINAGE AREA
Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

UTAH LAKE (UTAH)
Utah Lake Diking Project.
W77-01010 1002 6E

UTAH PHENO-CLIMATOLOGY MODEL
Evaporative Cooling of Peach Trees to Break Rest and Delay Bloom,
W77-12512 1024 3F

UTAH WATER PLAN
The State of Utah Water - 1975,
W77-03559 1007 6B

UTILITIES
Water Transportation Service.
W77-03725 1008 6E

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Do Economies of Scale Exist in Water Utility,
W77-09450 1019 5F

UTILIZATION
Making Aquatic Weeds Useful: Some Perspectives for Developing Countries.
W77-07964 1016 4A

UTRICULARIA FLEXUOSA VAHL
Population Changes in the Aquatic Fauna Inhabiting the Bladderwort, Utricularia Flexuosa Vahl., in a Tropical Swamp, Tasek Bera, Malaysia,
W77-07465 1015 5C

UTTAR PRADESH
Flood Problems in Uttar Pradesh,
W77-01450 1003 2E

UTTAR PRADESH (INDIA)
Result of Operational Cloud Seeding Experiment Over Rihand Catchment in Northeast India,
W77-01129 1003 3B

UV SPECTROPHOTOMETRY
A New Method for the Determination of Nitrates in Drinking Water,
W77-01278 1003 5A

VAAL DAM (U OF S AFRICA)
A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

VAAL RIVER
The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

VACUUM FILTRATION
Interactions Between Sludge Conditioning, Vacuum Filtration, and Incineration,
W77-00580 1002 5D

Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

VACUUM SEWER SYSTEMS
Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

VACUUM SEWERS
Demonstrating the Feasibility of Vacuum and Pressure Sewers,
W77-09834 1020 5D

VACUUM-TYPE SEWAGE DISPOSAL
Sewage Disposal System,
W77-04675 1010 5E

VADA (ITALY)
Study of a Human Population Exposed to Methylmercury from Fish Consumption, (In French),
W77-05688 1012 5C

VADOSE WATER
Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

Wastewaters in the Vadose Zone of Arid Regions: Geochemical Interactions,
W77-04755 1010 2K

VALIDATION OF PROCEDURE
Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

VALLEY CROSSINGS
A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

VALLEY FEVER
Dust Storms,
W77-01895 1004 2B

VALLEYS
A Valley Crossing in Pleistocene Deposits,
W77-07778 1016 8E

VALORIZATION
Ecosystem of the River Piva and Biological Valorization of its Waters, (In Serbo-Croatian),
W77-03852 1008 5B

VALPARAISO BAY (CHILE)
Phytoplankton Ecology in Valparaiso Bay: III. Phytoplankton from 1972-73, (In Spanish),
W77-03200 1007 5C

VALUATION
The Valuation of Aesthetic Preferences,
W77-08041 1016 6G

VALUE
The Economics of Natural Environments, Studies in the Valuation of Commodity and Amenity Resources.
W77-07437 1015 6G

Economic Value of Low Flow Data,
W77-07537 1015 5D

VALUE ENGINEERING
Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

VALVES
Distribution Valve for Irrigation Channels,
W77-04950 1010 3F

Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

VAMIDOTHION
A Basic Study on Application of Systemic Insecticides: V. Effects of Rainfall on Toxicity of Vamidothion and Malathion, (In Japanese),
W77-10737 1021 5C

VAN LAKE (MONT)
Symap Computer Projections of Summer Zooplankton Populations in Van Lake, Montana,
W77-07511 1015 7C

VANADIUM
Medical and Biologic Effects of Environmental Pollutants. Vanadium.
W77-02637 1006 5C

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Vanadium and Other Elements in Greenland Ice Cores,
W77-11586 1023 2C

VANCOUVER ISLAND
The Influence of Wind on the Surface Layer of a Stratified Inlet: Part I. Observations,
W77-06894 1014 2L

The Influence of Wind on the Surface Layer of a Stratified Inlet: Part II. Analysis,
W77-06895 1014 2L

VANCOUVER ISLAND (BRITISH COLUMBIA)
Currents in Johnstone Strait, British Columbia: Supplemental Data on the Vancouver Island Side,
W77-09354 1019 2L

VAPOR COMPRESSION DISTILLATION
Distillation Apparatus and Method,
W77-09804 1020 3A

Development and Testing of a Wastewater Recycler and Heater,
W77-12493 1024 5D

VAPOR PRESSURE
An Approximating Polynomial for the Computation of Saturation Vapor Pressure,
W77-06652 1014 2B

A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

Elevated Suction Tensions and Morphological Alterations Caused by Transverse Cuts in a Taxus Stem, (In German),
W77-09530 1019 2I

VAPOR PRESSURE GRADIENTS
A Note on Temperature and Humidity Profile Measurement Over Forests Using Diodes,
W77-06653 1014 7B

VARDAR BASIN (YUGOSLAVIA)
Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

VARIABILITY
Trieste--Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

The Variability of Monthly Rainfall in South Australia,
W77-00443 1001 2B

Caloric Investigations on the Shore Community of a Fish Pond, (In German),
W77-02336 1005 2H

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Nycthemeral Variation of the Phytoplankton in Campeche Bay, Mexico, (In Spanish),
W77-02854 1006 5C

Aspects of the Chemical Variability of some Tasmanian Inland Waters (Australia),
W77-03283 1007 2K

Elements of Quality Assurance in Environmental Surveillance,
W77-03786 1008 7A

Remarks on the Short Term Variability of the Parameters Relating to the Nutrient and Oxygen Balance During the Synoptic Investigation of Shallow Inlets During 1972, (In German),
W77-05159 1011 5A

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

Measurements of Planktonic Biomass in a Reservoir,
W77-06679 1014 5A

Predictions of the Soil Water Flux Based Upon Field-Measured Soil-Water Properties,
W77-07772 1016 2G

Aspects of the Daily and Seasonal Course of Transpiration Intensity in Meadow Plants, (In Russian),
W77-08709 1018 2D

Evidence for Baroclinic Instability of the Norwegian Current,
W77-10107 1021 2L

Variation in Chemical Composition of the River Frome, England, from 1965 to 1972,
W77-10138 1021 5C

Variability and Error in Rainfall Over a Small Tropical Watershed,
W77-10769 1021 2B

Some Problems in Sampling Stream Fauna, with Particular Reference to the Variability of Samples, (In Japanese),
W77-11292 1022 5A

Natural Variability in Distribution of an Intertidal Population of Macoma Balthica Subject to Potential Oil Pollution at Port Valdez, Alaska,
W77-11301 1022 5B

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

VARIABLE FLOW CONDITIONS
Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

VARIABLE PITCH SCREW
New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

VARIABLE SPEED OPERATION (PUMPED - STORAGE PLANTS)
Research into the Impact on Electrical Equipment from Variable Speed Operation of Pumped-Storage Plants,
W77-08492 1017 8C

VARIATIONS
Some Aspects of the Daily Development of the Plankton in the Environment of the Port of Marseille, (In French),
W77-11486 1022 2L

VARIETIES
Environmental Status of the Lake Michigan Region. Vol. 17. Inland Fishes of the Lake Michigan Drainage Basin,
W77-03566 1007 6G

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

VARVARA RESERVOIR (USSR)
Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

VARVES
Undrained Behavior of Embankments on New Liskeard Varved Clay,
W77-03108 1007 8D

Iron-Rich Rhythmically Laminated Sediments in Lake of the Clouds, Northeastern Minnesota,
W77-06901 1014 2J

VASCULAR PLANTS
Indicator Values of Vascular Plants in Central Europe, (In German),
W77-06803 1014 2I

VASCULAR TISSUES
Ozone and Vascular Tissue Differentiation in Plants,
W77-02439 1005 5C

VECTOR ANALYSIS
Indicator Value of Bioseston and Periphyton for Evaluation of Pollution Degree of Flowing Waters, (In Polish),
W77-10158 1021 5B

VECTOR MATRIC FLUX POTENTIAL
Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-04396 1009 2G

VECTORS (BIOLOGICAL)
Impact of Water Resources on Vector-Borne Diseases,
W77-11774 1023 5B

VEGETABLE CROPS
A Note on the Use of Bentonite Clay as a Sub-Soil Moisture Barrier for Vegetable Production on Drylands of Rajasthan,
W77-01277 1003 3F

Desert Food Factories,
W77-02176 1005 3C

Determination of Maximum Permissible Levels of Selected Chemicals that Exert Toxic Effects on Plants of Economic Importance in Illinois,
W77-03565 1007 5A

Persistence of Poliovirus 1 in Soil and on Vegetables Grown in Soil Previously Flooded with Inoculated Sewage Sludge or Effluent,
W77-07050 1014 5C

Activity of Intestinal Aryl Hydrocarbon Hydroxylase in Guinea Pigs Fed High Element Containing Sludge-Grown Cabbage,
W77-10576 1021 5C

VEGETAL FILTER
Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

VEGETATION
A Four-Year Analysis of Vegetation Following an Oil Spill in a Freshwater Marsh,
W77-00147 1001 5C

Significance of Water Vegetation in Desman Lands of the European Section of the USSR, (In Russian),
W77-00411 1001 2I

Defining the Sediment Trapping Characteristics of a Vegetative Buffer. Special Case: Road Erosion,
W77-00799 1002 4D

Techniques of Researching Information for the Development of a Manual to Vegetate Soils of Low Productivity Disturbed by Construction Activities,
W77-00805 1002 4D

The Macrophyte Vegetation of Five Lakes in Vefsn, Nordland County, North Norway, (In Norwegian),
W77-00823 1002 5C

Potential for Water Yield Improvement in Arizona Through Riparian Vegetation Management,
W77-01282 1003 3B

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Satellite Microwave Observations of Soil Moisture Variations,
W77-02495 1005 2G

Effect of Muskrats on Aquatic Vegetation, (In Russian),
W77-02925 1006 2I

Loss of Submerged Vegetation in the Pensacola Bay System,
W77-03946 1008 5G

Suspended Sediment Filtration Capacity of Simulated Vegetation,
W77-05184 1011 2J

Vegetation Information for Coastal Georgia,
W77-05399 1011 2L

Ecological Data on Continental Aquatic Vegetation, (In Spanish),
W77-06784 1014 2I

Persistence of Poliovirus 1 in Soil and on Vegetables Grown in Soil Previously Flooded with Inoculated Sewage Sludge or Effluent,
W77-07050 1014 5C

Monitoring Vegetation Conditions from LANDSAT for Use in Range Management,
W77-08412 1017 4A

Utilization of LANDSAT Imagery for Mapping Vegetation on the Millionth Scale,
W77-08413 1017 7C

The Use of Skylab Data to Study the Early Detection of Insect Infestations and Density and Distribution of Host Plants,
W77-08422 1017 7C

Agricultural Inventory Capabilities of Machine Processed LANDSAT Digital Data,
W77-08423 1017 3F

Ecological and Topographic Series of Vegetation of Erosion Forms of Relief in the Northeast of the Chernigov Territory, (In Ukranian),
W77-09622 1020 2I

Sedimentation Rates in a Coastal Marsh Determined from Historical Records,
W77-09713 1020 2J

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

The Origin and Structure of American Arid-Zone Ecosystems. The producers: Interactions Between Environment, Form and Function,
W77-09933 1020 2A

An Analysis and Comparison of Landsat-1, Skylab (S-192) and Aircraft Data for Delineation of Land-Water Cover Types of the Green Swamp, Florida,
W77-10871 1022 4A

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

VEGETATION EFFECTS

Afforestation, Catchment Protection and Water Supply Demands,
W77-01371 1003 4D

Phytosociologic Study of Mangroves of Tulear Region (Madagascar). 4. Pedologic Complements Relative to Mangroves of Songoritelo and of Saint-Augustin, (In French),
W77-01888 1004 2H

Rainfall Interception by Cool-Desert Shrubs,
W77-01900 1004 3B

Simulation of Forest Changes Related to Hydrologic Variables in the Atchafalaya River Basin, Louisiana,
W77-02019 1004 4A

Plant Cover and Sediment Transportation in the River Basin of the Seine (La Couverture Vegetale et Les Debits Solides Des Cours D'Eau Dans Le Bassin De La Seine),
W77-02775 1006 2J

Effects of Tree Growth Near Small Waterways of Muenster on Vegetation in Water and on Slopes with Respect to Maintenance of those Waterways, (In German),
W77-02887 1006 4A

Areal Differentiation of Snow Cover in East Central Ontario,
W77-04883 1010 2C

Investigations of the Water Budget in Soil with Vegetation and in Bare Soil with Different Ground Water Levels, (In German),
W77-05939 1012 2G

Comment on the Paper 'Dynamics of Deserts and Drought in the Sahel' by J. G. Charney, (And Reply),
W77-05944 1012 2D

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

Place and Role of Plant Cover in Optimization of the Donbas Natural Environment, (In Ukranian),
W77-06858 1014 4C

Evaluation of Potential Use of Vegetation for Erosion Abatement Along the Great Lakes Shoreline,
W77-07788 1016 4D

Microwave Remote Sensing of Soil Moisture,
W77-08066 1016 7B

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

Experimental Determination of the Radio Emission of the Underlying Surface on Lambda = 2.1 CM,
W77-10322 1021 7B

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

Colonization of Imperiled Plants in Dredged Lakes of the Upper Rhine Plain, (In German),
W77-10730 1021 2H

Energy Regime and Water Balance of an Alpine Dwarf Shrub Community During a Foehn Period, (In German),
W77-11089 1022 2I

Possible Rainfall Reduction Through Reduced Surface Temperatures Due to Overgrazing,
W77-11114 1022 2B

An Assessment of the Impact of Water Impoundment and Diversion Structures on Vegetation in Southern Arizona,
W77-11429 1022 4A

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

Soil Moisture Redistribution as Affected by Throughfall and Stemflow in an Arid Zone Shrub Community,
W77-12290 1024 2I

VEGETATION ESTABLISHMENT

Salt Marsh Establishment and Development,
W77-02420 1005 4D

Successions of the Vegetation Cover on the Drying Bottom of Lake Sevan, (In Russian),
W77-02736 1006 2H

A Note on Efficacy of Vegetative Covers and Slopes on Runoff and Fertility Losses in a Semi-Arid Tract of Rajasthan,
W77-02856 1006 4D

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

Restoration and Protection of Degraded Slopes,
W77-05948 1012 4D

Forest Vegetation Conditions of the Sand Tract of Tosynkumy (Kazakh SSR), (In Russian),
W77-06031 1012 2I

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

Vegetal Cover to Estimate Soil Erosion Hazard in Rhodesia,
W77-11630 1023 4D

Case Study of a Watershed Rehabilitation Project: Alkali Creek, Colorado,
W77-12367 1024 4D

VEGETATION MANIPULATION

Vegetation Manipulation--A Case Study of the Pinyon-Juniper Type,
W77-09959 1020 4C

VEGETATION REGROWTH

Seamalert, Current Surface-Mined Reclamation Literature Alerting Service.
W77-05373 1011 5G

The Pastoral Zone--Reprieved,
W77-06231 1013 2B

Moisture and Temperature of Soil in Different Sites of a Fir Stand, (In Italian),
W77-06466 1013 2G

Estimating Vegetative Biomass from LANDSAT-1 Imagery for Range Management,
W77-08409 1017 4A

Grassland Renovation - Conserves Soil and Energy and Increases Returns from Grass Fields,
W77-12622 1024 4D

VEGETATIVE EFFECTS

Soil Water Deficits Under Forested and Clear-cut Areas in Northern Arkansas,
W77-04254 1009 2G

VELIKA MORAVA RIVER (YUGOSLAVIA)

A Mathematical Model for Flood Wave Simulation Using Synthetic Rainfall Data for a Vast Watershed,
W77-12095 1023 2E

VELOCIMETERS
Analytical Evaluation of Techniques for Use of a Laser Doppler Velocimeter to Measure Flow and Turbulence,
W77-10784 1021 2E

VELOCITY
Vertical Profiles of Temperature and Fine-Scale Velocity Structure in the Thermocline,
W77-01615 1004 2L

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

Velocity of Sound in Sediments Cored From Southern Lake Michigan,
W77-05451 1011 2H

The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

Stochastic Analysis of Velocity Fluctuations in a Natural Stream Channel,
W77-07648 1016 2E

The Scaling of Velocity Fluctuations in the Surface Mixed Layer,
W77-07768 1016 2L

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

A Mathematical Model of Steady Flow in Curved Shallow Channels,
W77-09036 1018 8B

A Review of Velocity-Measuring Devices,
W77-09085 1018 7B

Acceleration to Terminal Velocity of Cloud and Raindrops,
W77-09719 1020 2B

Proportional Weirs as Velocity Controlling Devices,
W77-10118 1021 8B

Speed of Inertial Bed Load Disturbances,
W77-10305 1021 8B

Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

Turbulent Flow in Very Noncircular Conduit,
W77-11592 1023 8B

VELOCITY MEASUREMENT
Surface Particle Orbits in Uniform Waves,
W77-08845 1018 8B

VELOCITY MEASUREMENTS
The Influence of Turbulence on Static and Total Pressure Probes,
W77-05676 1012 8B

VELOCITY SPECTRA
The Scaling of Velocity Fluctuations in the Surface Mixed Layer,
W77-07768 1016 2L

VEMA CHANNEL
Abyssal Hydrography, Nephelometry, Currents, and Benthic Boundary Layer Structure in the Vema Channel,
W77-04004 1008 2L

VENERUPIS-DECUSSATA
Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

VENERUPIS-PULLASTRA
Biochemical Composition and Environmental Conditions of Venerupis Decussata and Venerupis Pullastra in the Pasaje Estuary, La Coruna, (In Spanish),
W77-04594 1009 5C

VENEZUELA
Field Testing of a New System for Qualifying Irrigation Water,
W77-12769 1024 3C

VENOM
Toxicity of the Surgeon Fishes-II Properties of the Principal Water Soluble Toxin,
W77-02700 1006 5C

VENTURI AIR INJECTION
U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

VENTURI FLUMES
Venturi Flumes for Circular Channels,
W77-12721 1024 8B

VERMICULITE
Bonding of Calcium and Potassium by Vermiculite and Kaolinite Clays as Affected by H-Clay Addition,
W77-06872 1014 2G

VERMILION AREA (ALBERTA)
Hydrogeology of the Vermilion Area, Alberta,
W77-05818 1012 4B

VERMILION RIVER (ILL)
Lead Transport in a River Ecosystem,
W77-03672 1008 5B

VERMILION RIVER (LA)
Flood Plain Information: Vermilion River and Tributaries, Lafayette, Louisiana.
W77-09366 1019 4A

VERMONT
Seasonal Snow Accumulation, Melt and Water Input–A New England Model,
W77-00646 1002 2A

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Sedimentation Rates and Sediment Thicknesses in Lake Champlain: 1975-76,
W77-02193 1005 2J

Geologic and Physical Factors Affecting Lake Champlain Shoreline Erosion,
W77-02222 1005 2J

Ground-Water Resources of the White River Junction Area, Vermont,
W77-04221 1009 4B

Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

Species Diversity of Littoral Zone Fishes Along a Phosphorus-Production Gradient in Lake Memphremagog, Quebec-Vermont,
W77-05884 1012 5C

Phytoplankton Production in Lake Memphremagog, Quebec (Canada)–Vermont (U.S.A.),
W77-07962 1016 5C

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

NOAA-ARS Cooperative Snow Research Project. Watershed Hydro-Climatology and Data for Water Years 1960-1974,
W77-11662 1023 2C

Vermont's Needs in Water Resources Research,
W77-12268 1024 6B

Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

VERNON COUNTY (WIS)
Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

VERONICA BECCABUNGA
Contributions to Ecological Chemistry CXV Metabolism of 2,5,4,-Trichlorobiphenyl-14C and 2,4,6,2,4,-Pentachlorobiphenyl-14C in the Marsh Plant Veronica Beccabunga,
W77-12243 1023 5C

VERTEBRAL COLUMN
Effects of Oral Administration of Cadmium on Fish - II, Results of Morphological Examination, (In Japanese),
W77-10361 1021 5C

VERTEBRAL NUMBER
Does Salinity Influence the Number of Vertebrae Developing in Fishes,
W77-09589 1019 5C

VERTICAL DISTRIBUTION
Distribution of Benthonic Foraminifers Off the Western Coast of South America, (In Russian),
W77-00496 1001 2L

The Benthos of Some Southern African Lakes Part 4: The Benthos of Lagoa Poelela,
W77-01438 1003 2H

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

VERTICAL DISTRIBUTION (POLLUTANT)
Vertical Distribution of Mercury, Nickel, and Chromium in Lake Erie Sediments,
W77-05721 1012 5B

VERTICAL ELECTRIC SOUNDINGS TECHNIQUES
Geophysical Exploration for Potable Groundwater Supplies in the Kalahari Gemsbok National Park,
W77-08654 1018 4B

VERTICAL FLOW
Unsaturated Zone and Vertical-Flow Components in Draining Unconfined Formations,
W77-04000 1008 2F

VERTICAL GRADIENTS
Vertical Gradients in Artificial Substrate-Associated Protozoan Community Structure in a Stratified Freshwater Lake,
W77-12196 1023 5C

VERTICAL INDICATORS
Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

VERTICAL INFILTRATION
Vertical Infiltration in Dry Soil,
W77-09351 1019 2G

VERTICAL MIGRATION
Gas Supersaturation Research, National Marine Fisheries Service Prescott Facility - 1971 to 1974,
W77-04415 1009 5C

Vertical Migrations of Larvae of the Atlanto-Scandian Herring (Clupea Harengus L.),
W77-05842 1012 2L

Vertical Migrations: Some Data on the Autumnal Behavior of Zooplankton in a Canal, (In French),
W77-05986 1012 5B

Effects of Pressure, Temperature and Oxygen on the Oxygen-Consumption Rate of the Midwater Copepod Gaussia Princeps,
W77-06642 1014 5C

Induced Vertical Mixing in a Stratified Impoundment by a Subsurface Warm Water Discharge,
W77-08929 1018 5B

Vertical Infiltration in Dry Soil,
W77-09351 1019 2G

VERTICAL MULTI-STAGE FLASH/FLUIDIZED BED EVAPORATOR (MSF/FBE)
The MSF/FBE: An Improved Multi-Stage Flash Distillation Process,
W77-11441 1022 3A

VERTICAL PROFILES (CHLOROPHYLL)
Short Term Variability in Vertical Chlorophyll Structure,
W77-09702 1020 2L

VERTICAL RECESSION
Evaluation of Recession Phenomenon in Vegetated Border Irrigation System,
W77-11445 1022 3F

VERTICAL TEMPERATURE DISTRIBUTION
A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

VERTICAL TEMPERATURE GRADIENT
Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

VERTICAL TEMPERATURE GRADIENTS
Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

VERY LARGE CRUDE CARRIERS (VLCCS)
Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

VESSEL SOURCE POLLUTION
International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

VESSEL TRAFFIC SYSTEM
Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

VESSELS
International Cooperation for the Prevention of Marine Oil Pollution,
W77-06537 1013 5G

Recent Tanker Accidents (Hearings, Part 1).
W77-12904 1024 5G

VESTED RIGHTS
Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

VIABILITY
Comparative Study of E. Coli Survival in Two Aquatic Ecosystems,
W77-04863 1010 5C

The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

VIABLE BACTERIA COUNTS
The Effect of Environmental Factors on Estimated Viable and Total Populations of Planktonic Bacteria in Lakes and Experimental Enclosures,
W77-10147 1021 5C

VIBRATING PILE DRIVER
New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

VIBRATION
Prototype Tests, Old River Low-Sill Control Structure, April 1973-June 1975,
W77-02967 1006 8B

VIBRATIONS
Verification of Hydroelastic Similitude Criteria,
W77-01880 1004 8B

VIBRIO ANGUILLARUM
Copper as an Initiating Factor of Vibriosis (Vibrio Anguillarum) in Eel (Anguilla Anguilla),
W77-05868 1012 5C

VIBRIO PARAHAEMOLYTICUS
Relationship of Vibrio Parahaemolyticus in Oysters, Water, Sediment, and Bacteriological and Environmental Indices,
W77-00877 1002 5C

Environmental Factors Affecting Survival and Growth of Vibrio Parahaemolyticus. A Review,
W77-06765 1014 5C

Vibrio Parahaemolyticus - A Marine Pathogen Detected in South African Coastal Waters,
W77-11553 1023 5C

VIBRIO SP
Microbiological Studies of Tokyo Bay,
W77-12875 1024 5C

VICINAL WATER
A DSC (Differential Scanning Calorimetry) Study of Heat Capacity of Vicinal Water in Porous Materials,
W77-09734 1020 1B

VICTORIA
Stability of Ionic Proportions in Five Salt Lakes in Victoria, Australia,
W77-03285 1007 2H

A New Code for Reducing Stream Siltation,
W77-10369 1021 4D

VILLAGE WATER SUPPLY
Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

VILLAR ESTUARY (INDIA)
Primary Production Studies in Porto Novo Waters, S. India,
W77-10140 1021 5C

VIMBA
Ecology of the Azov Vimba, Vimba Vimba Carinata (Pall.), of the Tsimlyansk Reservoir, (In Russian),
W77-09610 1020 2H

VINNITSA OBLAST (USSR)
Stratigraphy and History of Development of the Voitovtsovsk Bog in the Vinnitsa Oblast, (In Ukrainian),
W77-02922 1006 2H

VINYL ACETATE
Determination of Small Quantities of Vinyl Acetate in Air, Water, Alcoholic Solutions and Food Products, (In Russian),
W77-02117 1005 5A

VINYL CHLORIDE
Determination of Vinyl Chloride at Micrograms/Liter Level in Water by Gas Chromatography,
W77-00326 1001 5A

VINYLACETATE
Purification of Waste Water from Pulp and Paper Plants by Radiation Polymerization. II. Purification with Vinyl Acetate (Ochistka stochnykh vod predpriyatiy tsellyulozno-bumazhnoy promyshlennosti metodom radiatsionnoy polimerizatsii. II. Ochistka s primeneniem vinilatsetata),
W77-05519 1011 5D

VIRAL DISEASES
Disease Risks of Occupational Exposure to Sewage,
W77-01877 1004 5C

VIRAL RECONCENTRATION
Reconcentration of Poliovirus from Sewage,
W77-04703 1010 5D

VIRGIN ISLANDS
United States Coast Pilot 5 - Atlantic Coast from Gulf of Mexico, Puerto Rico, and Virgin Islands,
W77-00279 1001 4A

Waste Water Reclamation in St. Croix,
W77-07875 1016 5D

Floods of November 12, 1974, in the Charlotte Amalie Area, St. Thomas, U.S. Virgin Islands,
W77-08470 1017 7C

Amend the Merchant Marine Act of 1920 (Hearings on S 2422 to Include the Virgin Islands Within the Scope of the Act With Respect to Transportation of Oil and Oil Products).
W77-08982 1018 6E

Activities of the Water Resources Division of the U.S. Geological Survey in the Caribbean Area in 1976,
W77-11380 1022 9D

VIRGIN ISLANDS (BRITISH)
Sewage Plant for British Virgin Islands.
W77-03437 1007 5D

VIRGINIA
Flood Plain Information: Southampton County, Virginia.
W77-00104 1001 4A

Flood-Plain Delineation for Cameron Run Basin, Fairfax County--Alexandria City, Virginia,
W77-00870 1002 2E

Marine Resources Commission--Oyster Grounds--Use of Subaqueous Lands for Construction and Maintenance of Sewage Disposal Facilities.
W77-01015 1002 6E

A Model for Predicting Flood Hazards Due to Specific Land-Use Practices,
W77-02078 1005 2A

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

Storm Tide Frequency Analysis for the Open Coast of Virginia, Maryland, and Delaware,
W77-02661 1006 2L

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Water Resources Administration in Virginia: Analysis and Evaluation,
W77-02996 1006 6B

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Assateague Ecological Studies.
W77-03381 1007 5C

Virginia State Program for Control of Discharge of Pollutants to Navigable Waters; Approval.
W77-03527 1007 5G

Legal Symposium on Wetlands: An Executive Summary, November 1974,
W77-03685 1008 6E

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes,
W77-04576 1009 5C

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

Pros and Cons of Storm Water Recharge Wells,
W77-06324 1013 5B

Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

Pollutant Movement to Shallow Ground Water Tables from Swine Waste Lagoons,
W77-06742 1014 5B

Investigation of Flushing Time in the Lafayette River, Norfolk, Virginia,
W77-06881 1014 2L

The Differential Use of Chironomidae and Ceratopogonidae (Diptera) in the Monitoring of Various Aquatic Wastes,
W77-07282 1015 5A

Flood Plain Information, South Anna River, Hanover County, Va.
W77-07637 1016 4A

Flood Plain Information, North Anna River, Hanover County, Va.
W77-07638 1016 4A

Evaluation of Sediment Yields Due to Urban Development,
W77-07705 1016 4D

Development of the Turbidity Maximum in Rappahannock Estuary; Summary,
W77-07789 1016 2L

A Productivity Study of the Roanoke River Above Niagra Dam in Virginia,
W77-08333 1017 5C

LANDSAT-1 Data as it has Been Applied for Land Use and Water Quality Data By the Virginia State Water Control Board,
W77-08432 1017 5A

A Finite Element Model to Determine the Effect of Land-Use Changes on Flood Hydrographs,
W77-08450 1017 8B

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

United States V 62.61 Acres of Land, More or Less, In City of Virginia Beach, Commonwealth of Virginia (A Compensable Property Right as Might Exist in a Wharf or Pier will not be Found in a Jetty Constructed in Navigable Waters),
W77-08990 1018 6E

Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments,
W77-09152 1019 5C

Urbanization and Flooding - An Example,
W77-09161 1019 4C

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-09332 1019 5C

Flood Plain Information, Little River, Hanover County, Va.
W77-09367 1019 4A

Flood Plain Information, Stony Run Creek, Hanover County, Va.
W77-09368 1019 4A

Phytoplankton Periodicity in a New Reservoir, Lake Anna, Virginia,
W77-09493 1019 5C

A Model of Dynamics in the Lower Potomac River Estuary,
W77-09714 1020 2L

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Impact of Economic Risks on Box Culvert Designs--An Application to 22 Virginia Sites,
W77-10067 1020 8B

Effect of Land Use Management on Flood Predictions,
W77-10181 1021 4C

Stream Community Response to Road Construction Sediments,
W77-10182 1021 4C

United States V Allied Chemical Corporation (Multiple-Count Indictments for Waste Discharge Violations of the Rivers and Harbors Act).
W77-10481 1021 6E

Water Resources Data for Virginia, Water Year 1975.
W77-10856 1022 7C

Effects of Chlorinated Effluents on Aquatic Ecosystem in the Lower James River,
W77-11318 1022 5C

State Water Control Board V Train (State Compliance with Effluent Limitation Deadline Mandatory Under the Federal Water Pollution Control Act Amendments).
W77-11456 1022 6E

Insect Fauna of Some Virginia Thermal Streams,
W77-11476 1022 5C

VIRICIDES
Identification of the Virucidal Agent in Waste Water Sludge,
W77-09897 1020 5A

VIRUS
Studies on Virus Inactivation by Chlorine During Water Disinfection, (In German),
W77-07595 1015 5F

VIRUS REMOVAL
Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

Enteric Virus Removal from Septic Tank Effluent by Pilot Scale Soil Absorption Systems,
W77-04389 1009 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

VIRUSES

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Hygienic Aspects of Microbial Contamination of Water Basins, (In Russian),
W77-00454 1001 5B

Infectious Pancreatic Necrosis: Transmission with Iodine-Treated and Nontreated Eggs of Brook Trout (Salvelinus Fontinalis),
W77-01253 1003 5C

Viruses in Water, (Virusse in Water), (In Afrikaans),
W77-01481 1003 5A

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

Concentration of Viruses in Water by the Polymer Two Phase System: Quantitative Study, (In French),
W77-01567 1004 5A

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

Laser Methods of Rapid Detection, Identification and Quantitation of Human Enteric Viruses in Sewage and Rivers,
W77-02184 1005 5A

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

Hygienic Aspects of a Study of Bdellovibrio Bacteriovorus as a Natural Factor of Self-Purification of Water Bodies, (In Russian),
W77-02243 1005 5C

Removal of Algae from Florida Lakes by Magnetic Filtration,
W77-02522 1005 5D

Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

Field Monitoring Techniques and Data Analysis,
W77-03150 1007 5A

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

Cyanophage Analysis as a Biological Pollution Indicator-Bacterial and Viral,
W77-03460 1007 5A

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Enteric Virus Removal from Septic Tank Effluent by Pilot Scale Soil Absorption Systems,
W77-04389 1009 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Reconcentration of Poliovirus from Sewage,
W77-04703 1010 5D

Virus Movement in Soil Columns Flooded with Secondary Sewage Effluent,
W77-04712 1010 5B

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Adsorption as a Protective Mechanism for Waterborne Viruses,
W77-04997 1010 5F

Sorption of Poliovirus From Aqueous Solution with Active Carbon,
W77-05325 1011 5D

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-05726 1012 5D

Disinfection of Viruses in Sewage by Ozone,
W77-06128 1013 5D

Virus-Coal Sorption Interaction,
W77-06162 1013 5D

Effect of a Secondary Treated Effluent on the Movement of Viruses Through a Cypress Dome Soil,
W77-06173 1013 5B

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

Persistence of Poliovirus 1 in Soil and on Vegetables Grown in Soil Previously Flooded with Inoculated Sewage Sludge or Effluent,
W77-07050 1014 5C

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Enterovirus and Bacteriophage Inactivation in Subsurface Waters and Translocation in Soil,
W77-07283 1015 5B

Studies on Virus Inactivation by Chlorine During Water Disinfection, (In German),
W77-07595 1015 5F

Examination of Sewage Sludge for Enteroviruses, Volume 2,
W77-07615 1016 5B

Enterovirus Types in Israel Sewage,
W77-08519 1017 5A

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

Parasites and Diseases of Cultured Catfish for the Period July 1, 1972 Through June 20, 1975,
W77-08756 1018 5C

Water System Virus Detection,
W77-09636 1020 5A

Virus and Bacteria Removal from Waste Water by Rapid Infiltration Through Soil,
W77-09860 1020 5D

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Identification of the Virucidal Agent in Waste Water Sludge,
W77-09897 1020 5A

A Rapid Method for the Quantitative Isolation of Viruses from Polluted Water,
W77-10538 1021 5A

The Persistence of Poliovirus in Activated Sludge Treatment,
W77-10583 1021 5D

The Enhancement of High-Rate Disinfection by the Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11491 1022 5D

Experiences with Recovery of Viruses from Storm Water,
W77-11492 1022 5D

Epidemics of West Nile and Sindbis Viruses in South Africa with Culex (Culex) Univittatus Theobald as Vector,
W77-11547 1023 5C

Vibrio Parahaemolyticus - A Marine Pathogen Detected in South African Coastal Waters,
W77-11553 1023 5C

Serum Immunoglobulin Levels in White and Black Patients with Virus-A and Virus-B Hepatitis,
W77-11562 1023 5C

Progress of Studies on the Type A (Infectious) Hepatitis Virus in Water,
W77-11571 1023 5A

Microbiology of Waste Treatment, (Literature Review),
W77-11729 1023 5D

Inactivation of Viruses During Anaerobic Sludge Digestion,
W77-11737 1023 5D

Inactivation of Poliovirus in Wastewater Sludge with Radiation and Thermoradiation,
W77-11756 1023 5D

Evaluation of Potable Water as a Vehicle of Transmissibility and Viability for Herpesvirus,
W77-11935 1023 5B

Abnormal Terns, Sick Sea and Shore Birds, Organochlorines and Arboviruses in the Indian Ocean,
W77-12034 1023 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

Bacterial and Viral Pathogens Associated with Land Application of Organic Wastes,
W77-12445 1024 5E

Elimination of Enteroviruses During Treatment of Drinking Water by Coagulation - Flocculation - Filtration, (In French),
W77-12944 1024 5F

VISCOELASTICITY

Pumping of Aquifer with Viscoelastic Properties,
W77-03995 1008 4B

VISCOSE

Study of Dewatering of Cellulosic Sludge from the Viscose Fiber Industry (Issledovanie po obezvozhivaniyu tsellyuloznogo shlama predpriyatii viskoznogo volokna),
W77-02575 1005 5D

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

VISCOSE RAYON

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

VISCOSITY

Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

Viscosity of Interlayer Water in Montmorillonite,
W77-01326 1003 2G

Grid Turbulence in Hydraulic Models,
W77-02128 1005 8B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-08205 1017 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-10264 1021 4B

Temperature Effects on Emitter Discharge Rates,
W77-11406 1022 3F

VISCOUS FLOW

Viscosity of Interlayer Water in Montmorillonite,
W77-01326 1003 2G

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

VISIBILITY

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

VISTULA RIVER (POLAND)

General Description of the Vistula River Project and Basic Planning Data,
W77-06733 1014 4A

The Multi-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06734 1014 4A

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

VITAMIN B

The Nutrition of Great Lakes Cladophora,
W77-01288 1003 5C

Vitamin B12 Contents in Sea Water Along the Coast of Fukuyama in 1970 and 1971,
W77-11535 1023 5C

VITAMIN B12

Distribution and Ecological Significance of Vitamin B12 and Thiamin in Three Lakes, (In French),
W77-12334 1024 2H

VITAMINS

Action of Three Presumably Etocrine Substances (Riboflavin, Glutamic Acid, Glycine) on the Kinetics of Egg Development and Larval Growth in two Species of Echinoids, Arbaca Lixula and Paracentrotus Lividus). Action De Trois Substances Supposees Ectocrines (Riboflavine, Acide Glutamique, Glycine) Sur La Cinetique Du Developpement De L'Ouef et al Roissance De La Larve De Deux Especes D'Echiinides, Arbacia Lixula et Paracentrotus Lividus,
W77-01496 1003 5C

Distribution and Ecological Significance of Vitamin B12 and Thiamin in Three Lakes, (In French),
W77-12334 1024 2H

VOID RATIO

Scouring of Cohesive Soils,
W77-02127 1005 2J

VOLATILITY

A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

VOLCANIC ASH

On the Living Environment for Fish in the Coastal Waters Surrounding the New and Old Volcanic Island 'Nisi-No-Sima', (In Japanese),
W77-02917 1006 5C

VOLCANIC-ASH SOILS

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic Ash Derived Soils: I. Adsorption of Benzoate, P-OH Benzoate, Salicylate, and Phthalate Ions,
W77-00473 1001 2G

Interactions Between Organic Compounds, Minerals, and Ions in Volcanic-Ash-Derived Soils: II. Effects of Organic Compounds on the Adsorption of Phosphate,
W77-00474 1001 2G

Potassium-Calcium Exchange Equilibria in Volcanic-Ash Soils,
W77-02277 1005 2G

VOLCANOES

Environmental Assessment of the Alaskan Continental Shelf. Volume 12. Geology.
W77-00912 1002 6G

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

VOLGA BASIN (USSR)

Effect of Ponds and Small Reservoirs on River Runoff in the Forest-Steppe and Steppe Zones of the Volga Basin,
W77-08834 1018 4A

VOLGA PRE-DELTA (USSR)

Growth and Production of Mass Species of Chironomids (Diptera, Tendipedidae) in the Volga Pre-Delta, (In Russian),
W77-01025 1002 5C

VOLGA RIVER

Microbial Processes of Phenol Degradation in the Volga and its Reservoirs, (In Russian),
W77-04064 1008 5C

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Role of River Runoff and of Water Exchange in the Salinity of the Northern Caspian Sea,
W77-08836 1018 2H

VOLTA LAKE (GHANA)

Environmental Aspects of a Large Tropical Reservoir - A Case Study of Volta Lake, Ghana.
W77-01779 1004 5C

VOLTAGE FLUCTUATION

Line Power Variations Cause Pump Motor Problems,
W77-12666 1024 8C

VOLTAMETRY

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

VOLUME

Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Antisymmetric Stress for Sea Ice,
W77-04240 1009 2C

Volumetric Change of the Athabasca Glacier over the Last 100 Years,
W77-05792 1012 2C

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

VOLUMETRIC ANALYSIS
Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

Chemical Catalyst Interference in the Winkler Titration Determination of Dissolved Oxygen -- A Method for Correction,
W77-02564 1005 5A

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

A Rapid Volumetric Method of Determining Fluorine in Water, (In Russian),
W77-07950 1016 5A

Electrochemical Determinations of Trace Quantities of Phosphate and Nitrate,
W77-08817 1018 5A

VOLUMETRIC FLUX DENSITY VECTOR
Toward an Analytical Theory of Water Flow Through Inhomogeneous Porous Media,
W77-06014 1012 2F

VOLUMETRIC FORECASTING
Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

VOLUNTEER ARMY AMMUNITION PLANT
Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Vol. III - Volunteer Final Report,
W77-10958 1022 5C

VOLUNTEER PROGRAMS
Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

VORDERER FINSTERTALER SEE (AUSTRIA)
Annual Benthic Biomass Distribution in a High-Mountain Lake (Vorderer Finstertaler See, Tyrol, Austria),
W77-05223 1011 5C

VORONEZH REGION (USSR)
Organic Matter in Atmospheric Precipitation in the Voronezh Region, (In Russian),
W77-01249 1003 5B

VORTEX TUBE SEDIMENT TRAPS
Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

VORTEX VELOCITY (SEDIMENTS)
Vortex Velocity Prediction with Emphasis Directed Toward Vortex Tube Sediment Trap Design,
W77-01520 1003 8B

VORTICELLA CONVALLARIA VAR SIMILIS
The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

VORTICES
Prediction of Velocity Distribution in a Vortex Tube Sediment Trap with Turbulence Models,
W77-10657 1021 4D

A Program for the Stability Analysis of Pipe Poiseuille Flow,
W77-10984 1022 8B

Effects of Fog Droplets on Wake Vortex Decay Rate,
W77-12823 1024 2B

VOSTOK BAY (USSR)
Macrophytic Algae of the Vostok Bay (Sea of Japan), (In Russian),
W77-01142 1003 5C

VULNERABILITY MODELS
Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

VYDATE
Nematicide Application Through Porous Subsurface Irrigation Tubing,
W77-11960 1023 3F

WA
Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

WABASH RIVER BASIN
A Preliminary Study of the Taste and Odor Problems in Grand Lake, Ohio and the Wabash Rivers, Indiana,
W77-03384 1007 5C

WABASH RIVER BASIN (IND)
A Study of the Utilization of EREP Data from the Wabash River Basin,
W77-06670 1014 7B

WABASH RIVER (ILL)
Largescale Ripples of the Lower Wabash River,
W77-03761 1008 2J

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

WABASH RIVER (IND)
Effects of Power-Plant Cooling-Water Entrainment on the Drifting Macroinvertebrates of the Wabash River (Indiana),
W77-05594 1011 5C

The Fish Populations of the Middle 340 KM of the Wabash River,
W77-05935 1012 5C

WAHIAWA RESERVOIR (HI)
Eutrophication and Fish Toxicity Potentials in a Multiple-Use Subtropical Reservoir,
W77-03825 1008 5C

WAIVERS
Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

WAKE COUNTY (NC)
Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

WALDO LAKE (ORE)
A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

WALES
The Temperature of Two Welsh Lakes and Its Effect on the Distribution of Two Freshwater Insects,
W77-00878 1002 5C

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

The Effect of Model Grid Length and Orographic Rainfall 'Efficiency' on Computed Surface Rainfall,
W77-10133 1021 2B

Orographic Rainfall in Warm Sectors of Depressions,
W77-10330 1021 2B

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

Flows of Sodium, Potassium, Magnesium and Calcium in the R. Cynon, S. Wales,
W77-12320 1024 5B

WALES (PLYNLIMON)
A Model of Transpiration and Interception Loss from a Spruce Forest in Plynlimon, Central Wales,
W77-09711 1020 2D

WALES (SOUTH)
The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

WALKER BRANCH (TENN)
Production Dynamics of Alloperla Mediana Banks (Plecoptera:Chloroperlidae) and Diplectrona Modesta Banks (Trichoptera:Hydropsychidae) in Walker Branch, Tennessee,
W77-03953 1008 5C

WALKER RIVER BASIN
California-Nevada Interstate Compact.
W77-06575 1013 6E

WALLA WALLA RIVER BASIN (WASH-OREG)
Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

WALLABY CREEK (VIC)
Water Supply Catchment Hydrology Research: The Wallaby Creek Fog Drip Study,
W77-01070 1003 2I

WALLEYE
Effects of Reduced Oxygen on Embryos and Larvae of the White Sucker, Coho Salmon, Brook Trout, and Walleye,
W77-04547 1009 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Tannin as an Agent to Eliminate Adhesiveness of Walleye Eggs During Artificial Propagation,
W77-12049 1023 5G

WALLOPS ISLAND (VA)
In Intensive Biometric Intertidal Survey (Project IBIS). A Salt Marsh Monitoring Study,
W77-04478 1009 2L

WALLS
Corps-Wide Conference on Computer-Aided Design in Structural Engineering. Volume IX. Sheet Pile Walls and T-Walls,
W77-10136 1021 8B

WALNUT CREEK (AZ)
Hydraulic Performance of Flumes for Measurement of Sediment-Laden Flash Floods,
W77-01935 1004 2E

WALNUT CREEK BASIN (KAN)
Further Development and Testing of a Stream-Aquifer System Model,
W77-06762 1014 2F

WALNUT GULCH EXPERIMENTAL WATERSHED (ARIZ)
Flow Recession in the Ephemeral Stream,
W77-02162 1005 2E

WALTHAM (MA)
New Programs Improve Sensitive Areas of Water and Sewer Systems,
W77-06995 1014 8G

WALWORTH COUNTY (WIS)
Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

WAPITI AREA (ALBERTA)
Hydrogeology of the Mount Robson-Wapiti Area, Alberta,
W77-11588 1023 2F

WAPSINONOC CREEK (IA)
Wapsinonoc Creek Flood Plain Information, Muscatine County, Iowa.
W77-10910 1022 4A

WAPSIPINICON RIVER (IA)
Wapsipinicon River and Malone Creek Flood Plain Information, Independence, Iowa.
W77-05284 1011 4A

WARBURG RESPIROMETER TEST
Biodegradability of Organic Compounds,
W77-05483 1011 5B

WARD CREEK (CALIF)
Iron Transport in a Lake Tahoe Tributary and its Potential Influence upon Phytoplankton Growth,
W77-04022 1008 5B

WARD CREEK (LA)
Flood Plain Information: Ward Creek and Tributaries, Baton Rouge, Louisiana, No. 2.
W77-09365 1019 4A

WARE RIVER (MA)
Flood Plain Information: Chicopee River: Chicopee, Springfield, Ludlow, Wilbraham and Palmer, Massachusetts.
W77-03178 1007 4A

WARM SPRINGS DAM (ARIZ)
Environmental Impact Statements in Water Resources Planning and Decision Making,
W77-06738 1014 6E

WARM SPRINGS INDIAN RESERVATION (OREG)
Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

WARM WATER DISCHARGE
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

WARM-WATER FISH
The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

Effect of Lindane on the Survival Time of Fry of Makropodus Opercularis,
W77-11302 1022 5C

WARNING SYSTEMS
Urban Flood Warning and Watershed Management Advances in Metropolitan Melbourne,
W77-00670 1002 6F

Optimizing Benefits to Urban Residents of a Total Flood Warning System for the Brisbane Valley (Australia),
W77-00944 1002 4A

A Report to the New England River Basins Commission on Non-Structural Measures for Flood Plain and Flood Damage Management with Application to the Connecticut River Basin Supplemental Flood Management Study. Phase II. The Formulation and Evaluation of Specific Alternatives,
W77-01696 1004 6F

Disasters Caused by Flash Floods,
W77-01937 1004 2E

Warning System for Severe Floods,
W77-01939 1004 7B

Systems for Preparing Timely Flash Flood Warnings,
W77-01942 1004 4A

Flash Floods in India,
W77-01943 1004 2E

The Use of Remote Sensing Systems in Monitoring Desert Floods,
W77-01944 1004 7B

System for Evaluation of the Hazards of Bulk Water Transportation of Industrial Chemicals,
W77-02206 1005 5G

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

Environmental Stressor Matrix System for Early Warning,
W77-02837 1006 5A

Early-Warning System for Toxic Substances: Human Health Aspects,
W77-02847 1006 5A

Landscape Geochemistry and Environmental Problems,
W77-02849 1006 5A

Big Thompson Canyon Flash Flood of July 30-August 1, 1976. A Report to the Administrator.
W77-04833 1010 2B

Community Self-Help River Forecast Procedures,
W77-06086 1012 4A

An Operational All-Weather Great Lakes Ice Information System,
W77-06527 1013 2C

Great Lakes All-Weather Ice Information System,
W77-06528 1013 2C

Disaster Assistance (Flood Mitigation).
W77-06593 1013 4A

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

Evaluation of Flood Forecasting-Response Systems,
W77-07524 1015 4A

The Operation of a Flood Warning Network: Its Use for Studying Flash Floods (Exploitation D'un Reseau D'alerte: Son Utilisation Pour L'etude Des Crues Brutales),
W77-08248 1017 2E

WASATCH MOUNTAINS
Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

WASH WATER
Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

WASHING (WASTES)
Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

WASHINGTON
Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Debris Flows Following Wildfire in North Central Washington,
W77-00783 1002 4C

1974 Annual Report, (Washington Natural Resources and Recreation Agencies).
W77-00957 1002 5G

Lake Washington Ship Canal,
W77-01001 1002 6E

1971 Water Resources Act.
W77-01002 1002 6E

Harbors, Tide Waters and Water Rights.
W77-01003 1002 6E

Shoreland Boundaries.
W77-01004 1002 6E

Tidelands Act; Powers and Regulations.
W77-01005 1002 6E

Drainage Districts; Powers.
W77-01006 1002 6E

Flood Control by State in Cooperation With Federal Agencies.
W77-01007 1002 6E

Diking Districts; Powers.
W77-01008 1002 6E

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Microclimatic Patterns on the Arid Lands Ecology Reserve,
W77-02870 1006 2B

Grays Harbor Estuary, Washington, Report 6, 45-FT MSL (40-FT MLLW) Navigation Channel Improvement Studies; Hydraulic Model Investigation,
W77-02963 1006 8B

A Computer Program for Estimating Costs of Owning and Operating an Irrigation Well Under Conditions of Declining Water Levels,
W77-03211 1007 6C

A Study of the Suspended Particulate Problem in the Duwamish Basin,
W77-03291 1007 5A

Low Flow Modeling in Small Steep Watersheds,
W77-03316 1007 4D

Data on Selected Lakes in Washington, Part 5,
W77-03350 1007 7C

Effect of Added Salts on Nitrogen Released and Nitrate Levels in Forest Soils of the Washington Coastal Area,
W77-03396 1007 2G

Clippinger V Birge (Riparian Rights in an Artificial Lake).
W77-03512 1007 6E

1971 Shoreline Management Act.
W77-03514 1007 6E

Irrigation Districts Powers and Purposes.
W77-03515 1007 6E

Waterway Districts.
W77-03516 1007 6E

Eminent Domain.
W77-03517 1007 6E

Fin Erosion Disease of Starry Flounder (Platichthys Stellatus) and English Sole (Parophrys Vetulus) in the Estuary of the Duwamish River, Seattle, Washington,
W77-04038 1008 5C

Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

The Use of Algal Assays to Determine Effects of Waste Discharges in the Spokane River System,
W77-04159 1009 5C

1975 Annual Report Natural Resources and Recreation Agencies,
W77-04357 1009 6E

Department of Ecology,
W77-04358 1009 6E

Oceanographic Commission,
W77-04359 1009 6E

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

Hefferline V Langkow (Structural Rights of Adjacent Riparian Landowners),
W77-04930 1010 6E

Numerical Model of the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-04973 1010 5B

Bedload Transport in Two Large, Gravel-Bed Rivers, Idaho and Washington,
W77-04990 1010 2J

Hayes V Yount (Appellate Review of Coastal Development Permit),
W77-05064 1010 6E

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Canal Commission Law.
W77-05072 1010 6E

Low-Flow Characteristics of Streams on the Kitsap Peninsula and Selected Adjacent Islands, Washington,
W77-05273 1011 2E

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

Alternate Methods of Avalanche Control (Interim) (1974-1975),
W77-05810 1012 2C

An Application of the Utah State University Watershed Simulation Model to the Entiat Experimental Watershed, Washington State,
W77-05918 1012 4D

Evapotranspiration of a Douglas Fir Determined with a Weighing Lysimeter,
W77-05959 1012 2D

Comparison of Sea Water with Fresh Water in Rearing Chum Salmon Smolts,
W77-06261 1013 5C

The Washington Shoreline Management Act of 1971,
W77-06547 1013 6E

Temperature Relations of Puget Sound Thaids in Reference to Their Intertidal Distribution,
W77-06767 1014 5C

Potassium in an Arid Loessial Soil: Changes in Availability as Related to Cropping and Fertilization,
W77-06870 1014 3F

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Subtidal and Intertidal Marine Fouling on Artificial Substrata in Northern Puget Sound, Washington,
W77-07201 1015 5C

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Diel Phosphate Flux in Lake Washington, U.S.A.,
W77-07968 1016 5C

Present and Past Glaciation Threshold in the Cascade Range, Washington, U.S.A.: Topographic and Climatic Controls, and Paleoclimatic Implications,
W77-08056 1016 2C

Improving Institutional Arrangements for Water Development in the State of Washington: Developmental and Environmental Trade-Offs and Constraints,
W77-08284 1017 6E

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Citizen Participation in Water Policy Formation,
W77-08603 1018 6B

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

Water Resources Data for Washington, Water Year 1975.
W77-08737 1018 7C

Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

A Comparative Study of Organic Carbon and Nutrients in Lake Sediment,
W77-09065 1018 5A

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

A Systematic Approach to Regional Water Quality Planning,
W77-09156 1019 5G

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Response of the Spokane River Diatom Community to Primary Sewage Effluent,
W77-09273 1019 5C

On the Causes of Local Climatic Anomalies, With Special Reference to Precipitation in Washington State,
W77-09355 1019 2B

Microstratification of Lake Washington Sediments,
W77-09483 1019 5C

The Ecological Behavior of Plutonium and Americium in A Freshwater Pond,
W77-09501 1019 5C

Israel v Morton (Restrictions on Rights of Conveyance of Property Within a Federal Reclamation Project).
W77-09567 1019 6E

Conservation Districts Law.
W77-09584 1019 6E

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

Cloud Condensation Nucleus Size Distributions and Their Effects on Cloud Droplet Size Distributions,
W77-10125 1021 2B

Seasonal Changes in Two Algal Populations from the Coastal Waters of Washington State,
W77-10150 1021 5C

Bayley V Kane (Enforcement of Order to Remove Improvements Held to Be In Violation of Flood Control Zones Act).
W77-10475 1021 6E

Van Deursen V Dunlap Towing Company (The Right of Navigation as Prevailing Over the Right to Fish).
W77-10478 1021 6E

Organic Matter and Nitrogen Distribution in Some Mountain Heath Communities of the Source Lake Basin, Washington,
W77-10803 1022 5B

Erosion Defense Structures on the Puget Sound Shoreline,
W77-11038 1022 4D

Ediz Hook: Past, Present, and Future,
W77-11039 1022 2L

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Textural Characteristics of Drift from Some Representative Cordilleran Glaciers,
W77-11608 1023 2C

Cloud Condensation Nuclei from a Paper Mill. Part I: Measured Effects on Clouds,
W77-11805 1023 2B

Cloud Condensation Nuclei from a Paper Mill. Part II: Calculated Effects on Rainfall,
W77-11806 1023 2B

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Biogenic Meromixis and Stability in a Soft-Water Lake,
W77-12319 1024 2H

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

WASHOVER DEPOSITS

Nature and Genesis of Some Storm Washover Deposits,
W77-03293 1007 2L

WASTE ANALYSIS

Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

WASTE ASSIMILATIVE CAPACITY

The Dependence of Assimilation Number and Chlorophyll Concentration on Water Productivity in Different Temperature Areas of the World Ocean, (In Russian),
W77-01591 1004 5C

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

Bacterial Assimilation of Organic Matter in Waters with Various Pollution Levels, (In Russian),
W77-04081 1008 5B

The Limits of Cost-Benefit Analysis as a Guide to Environmental Policy,
W77-04561 1009 5G

Options for Improving Water Quality,
W77-05252 1011 5G

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Evaluation of Nitrification in the Water Column of the Passaic River,
W77-08813 1018 5C

Loading Functions for Assessment of Water Pollution from Nonpoint Sources,
W77-09726 1020 5B

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

WASTE DILUTION

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

Movement of Pollutants in a Two-Dimensional Seepage Flowfield,
W77-04876 1010 5B

Allowance for the Variability of Discharges in Computations of the Dilution of Waste Waters in Rivers,
W77-05234 1011 5B

Algal Growth Potential of Waste Water Effluents in Hawaiian Receiving Waters,
W77-05852 1012 5C

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Mean Behavior of Buoyant Jets in a Crossflow
W77-09013 1018 8B

Dilution Characteristics of Effluents in Deep Water Reservoirs Determined with a Radioactive Indicator (On the Example of Lake Baikal), (In Russian),
W77-09735 1020 5B

Study of Dilution of Sulfite Mill Effluents in Large Rivers and Evaluation of Determining Factors (Issledovanie protsessa razbavleniya stokov sul'fit-tsellyuloznogo proizvodstva v usloviakh bolshikh rek i otsenka opredelyashchikh faktorov),
W77-10704 1021 5B

Initial Dilution with Deepwater Diffusers,
W77-12408 1024 5E

WASTE DISPOSAL

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

Soft Water Can Mean Hard Disposal Problems,
W77-00589 1002 5E

A Model of Recycling and Pollution Control,
W77-00711 1002 5G

A Systems Approach to the Economics of Waste Handling,
W77-00745 1002 5D

Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

1974 Annual Report, (Washington Natural Resources and Recreation Agencies).
W77-00957 1002 5G

Garbage Pollution, Disposal into Streams.
W77-00990 1002 6E

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

Pollution of Navigable Waters.
W77-01122 1003 6E

Urban Solid Wastes Engineering,
W77-01379 1003 5E

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Manure Disposal, Pollution Control, and the New York Dairy Farmer,
W77-01528 1003 5D

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Land Spreading of Manure from Animal Production Units,
W77-01544 1003 5E

An Ecological Blueprint for Today.
W77-01548 1003 5D

Considerations for Land Disposal of Paper and Pulp Mill Sludge,
W77-01654 1004 5E

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

A Model for Calculating Effects of Liquid Waste Disposal in Deep Saline Aquifers, Part I--Development.
W77-02010 1004 5B

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Gas and Leachate from Landfills: Formation, Collection, and Treatment. Proceedings of a Research Symposium.
W77-02394 1005 5E

Introduction to Symposium on Gas and Leachate from Landfills: Formation, Collection, and Treatment,
W77-02395 1005 5E

Current EPA Research Activities in Solid Waste Management,
W77-02396 1005 5E

Current Office of Solid Waste Management Programs - Landfill Activities,
W77-02397 1005 5E

Current Solid Waste Research Activities in New York State,
W77-02398 1005 5E

Current Solid Waste Management Activities in Puerto Rico,
W77-02399 1005 5E

Landfill Research Work in Progress at Harwells Hazardous Materials Service,
W77-02400 1005 5E

Theoretical Approach to Gas Movement Through Soils,
W77-02401 1005 5B

Variations in Gas and Leachate Production from Baled and Non-Baled Municipal Refuse,
W77-02404 1005 5E

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Assessing Synthetic and Admixed Materials for Lining Landfills,
W77-02410 1005 5E

Landfill Management with Leachate Recycle and Treatment: An Overview,
W77-02411 1005 5D

Solid Waste Degradation Due to Shredding and Sludge Addition,
W77-02412 1005 5E

Case History of Landfill Gas Movement Through Soils,
W77-02413 1005 5E

Wastewater Requirements Multiply Solids Problems,
W77-02601 1006 5G

Eighth Meeting of the IULTCS Tannery Wastes Commission, Svendborg, Denmark, 21st to 23rd May 1975.
W77-02603 1006 5D

Handling Discharges from Waste Oil Processing,
W77-02604 1006 5D

Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

History of Ocean Dumping in the Gulf of Mexico,
W77-02668 1006 5E

Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

Land Disposal of Sewage Sludge, Volume III, April 1974 - March, 1975,
W77-02756 1006 5D

Contaminants in the New York Bight,
W77-02799 1006 5B

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

Residual Waste Management Research and Planning Projects, September 1975,
W77-03355 1007 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

Ship-to-Shore Sewage Hose Handling Tests,
W77-03364 1007 5D

An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

Marine Sanitation.
W77-03720 1008 6E

Method of Disposing Sludges Containing Soluble Toxic Materials,
W77-03866 1008 5E

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

Effects of Agricultural Practices and Land Disposal of Solid Waste on Quality of Water from Small Watersheds,
W77-04102 1009 5B

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

Ocean Dumping; Proposed Revision of Regulations and Criteria.
W77-04372 1009 5G

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Effect of Municipal Landfill Leachate on Mercury Movement Through Soils,
W77-04729 1010 5B

Recycling Sewage Waste Resources and Soil Amelioration,
W77-04827 1010 5E

Waste Disposal,
W77-04847 1010 5E

Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor,
W77-04849 1010 5C

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Sewage Drains and Discharge; Refuse Disposal.
W77-05071 1010 6E

Energy, Agriculture and Waste Management,
W77-05308 1011 4C

Process Description and Adaptation Study,
W77-05379 1011 5G

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

Dredging and Birds in the North Carolina Estuary,
W77-05408 1011 6G

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

Treatment of Waste Rolling Oil,
W77-05663 1012 5D

New Refuse Incinerator to Burn Atomized Sludge,
W77-06125 1013 5E

Modules Permit Easy Expansion,
W77-06131 1013 5D

Volumetric Determination of Grease in Wastewater,
W77-06160 1013 5A

The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

Fast Payout from In-Plant Recovery of Spent Solvents,
W77-06210 1013 5D

Benefits of Spreading Whey on Agricultural Land,
W77-06215 1013 5D

Evaluation of Arsenic Concentrations in the Tulpehocken Creek Basin,
W77-06330 1013 5B

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

Inland Lake Demonstration Project,
W77-06599 1013 5G

Dispersion of Liquid Waste from a Moving Barge,
W77-06913 1014 5B

Burning Waste Chlorinated Hydrocarbons in a Cement Kiln,
W77-06946 1014 5E

Proceedings Technology Transfer Seminar on Waste Handling, Disposal and Recovery in the Metal Finishing Industry, November 12-13, 1975, Toronto, Ontario.
W77-06950 1014 5D

Apparatus for Disposal of Effluents.
W77-07002 1014 5E

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

Toxic Waste Disposal,
W77-07209 1015 5G

Deep Well Injection: Sweeping the Problem Under the Carpet,
W77-07295 1015 5G

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Waste Management for the Coastal Zone: Concepts for the Assessment of Ocean Outfalls,
W77-07747 1016 5E

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Community Water Supply and Excreta Disposal in the Developing Countries,
W77-07865 1016 5G

Silk from Sow's Ears.
W77-07867 1016 5D

Golar Rubbish, Oil Sludge and Sewage Incinerator.
W77-07911 1016 5E

A Quantitative Study of Organic Carbon Decomposition and Nitrogen Transformations in Sewage Sludge-Soil Systems,
W77-08291 1017 5B

City of York V. Pennsylvania Department of Environmental Resources (Delegation of Authority Under the Pennsylvania Waste Management Act).
W77-08403 1017 6E

Sewage Disposal System.
W77-08563 1017 5E

Incineration Solves Tough Waste Problems.
W77-08576 1017 5E

Sewage Sludge Incineration Should Be Improved by Addition of Newsprint Pulp.
W77-08639 1018 5E

Solid Waste Management: A Test of Alternative Strategies Using Optimization Techniques,
W77-08723 1018 5E

Experimental Study of Multi-Cation Diffusion in an Artifical Quartz Sandstone,
W77-08811 1018 2K

The Design of a System for Collecting Leachate from a Lined Landfill Site,
W77-08827 1018 5G

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Physical Oceanography Historical Data for Deepwater Dumpsite 106,
W77-09248 1019 5B

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Archibenthic and Abyssobenthic Fishes of Deepwater Dumpsite 106 and the Adjacent Area,
W77-09253 1019 5C

An Analysis of Plankton from Deepwater Dumpsite 106,
W77-09254 1019 5C

Land Application of Waste Water, A Bibliography.
W77-09265 1019 5D

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

Satellite and Current Drogue Studies of Ocean-Disposed Waste Drift,
W77-09358 1019 5B

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Refinery Effluent Improved by Gravity-Pressure Dewatering,
W77-09420 1019 5D

A Study of Disposal of Campground Wastes Adjacent to Waldo Lake, Oregon,
W77-09471 1019 5D

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

Biodegradation of Cellulosic Substrates,
W77-09522 1019 5B

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

Continuous Composting of Organic W W Waste--by Automatic Control of Fermentation Temperature and Humidity of Product and Control of Carbon Dioxide or Oxygen in Waste Gases,
W77-09831 1020 5E

Co-Burning of Sludge and Refuse with Waste Heat Recovery,
W77-09857 1020 5E

Growth of Tulips Treated with Sludge Containing Dewatering Chemicals,
W77-09867 1020 5E

Concurrent Waste Water Renovation and Solid Waste Composting,
W77-09879 1020 5D

Effluent Treatment Versus Disposal Through Long Sea Outfalls,
W77-09895 1020 5E

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

Groundwater Monitoring Wells,
W77-10517 1021 5B

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

Water Treatment Plant Sludges: An Update of the State-of-the-Art,
W77-10634 1021 5D

A Methodology for Assessing Land Application of Sludges and Wastewaters,
W77-10635 1021 5E

Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Amador Valley Investors v City of Livermore (The Acts of a City are not Privileged When Private Property Damage Results from Inadequate Planning of Waste Disposal).
W77-11181 1022 6E

Regional Waste Disposal Act.
W77-11190 1022 6E

Ocean Dumping--Part 3 (Oversight of the Marine Protection, Research and Sanctuaries Act of 1972, and Investigating the Waste Disposal in the New York Area),
W77-11451 1022 6E

Effect of Waste Discharge Regulations on Real Property Development,
W77-11462 1022 5G

Ocean Dumping,
W77-11469 1022 5G

Let's Talk Rubbish Part 3: Litter,
W77-11545 1023 5B

Aquaculture,
W77-11665 1023 5G

Mechanical Sewage Sludge Composting - In Mixer with Recycled Biogenic Mass Charging Revolving Heated Drum.
W77-11681 1023 5E

Characteristics of Percolate of Solid and Hazardous Waste Deposits,
W77-11721 1023 5E

Standing Committee on the Disposal of Sewage Sludge.
W77-11740 1023 5E

Concept, Research, Approval...An Effluent Irrigation Project Houghton Lake Sewer Authority.
W77-11757 1023 5E

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

LANDSAT Observations of Ocean Dump Plume Movement and Dispersion,
W77-11894 1023 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Residual Waste Best Management Practices: A Water Planner's Guide to Land Disposal,
W77-12076 1023 5E

A Laboratory Study of Waste Injection into a Ghybenherzberg Groundwater System Under Dynamic Conditions,
W77-12267 1024 8B

Storage of Treated Sewage Effluent and Storm Water in a Saline Aquifer, Pinellas Peninsula, Florida,
W77-12377 1024 5E

Water Quality Management--Waste Disposal: A Water Authority Viewpoint,
W77-12428 1024 5E

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12688 1024 5D

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

WASTE DISPOSAL FIELDS

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

WASTE DISPOSAL SITE SELECTION

The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

WASTE DISPOSAL SITES

On Radioactive Waste Management: Model Analysis of a Proposed Site,
W77-05791 1012 5E

WASTE DISPOSAL WELLS

The Application of Borehole Geophysics to the Selection and Monitoring of Nuclear Waste Disposal Sites,
W77-03970 1008 5E

Geologic Evaluation of Waste-Storage Potential in Selected Segments of the Mesozoic Aquifer System below the Zone of Fresh Water, Atlantic Coastal Plain, North Carolina through New Jersey,
W77-05753 1012 5B

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

EPA Jurisdiction Over Well Injection Under the Federal Water Pollution Control Act,
W77-11164 1022 5G

WASTE DUMPS

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

Generation of Leachate from Landfills and Its Subsurface Movement,
W77-04134 1009 5B

Ocean Dumping--Part 2.
W77-05037 1010 5E

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

Taconite Tailings Disposal, Reserve Mining Company, Silver Bay, Minnesota.
W77-10062 1020 5C

Characteristics of Percolate of Solid and Hazardous Waste Deposits,
W77-11721 1023 5E

WASTE HEAT

Use of Waste Heat for Soil Warming in North Carolina,
W77-02532 1005 5D

An Assessment of Techniques for Hydrothermal Prediction,
W77-03768 1008 5B

The Influence of Soil Warming with Waste Heated Water on Sweet Potato Growth, Development, and Root Quality,
W77-04395 1009 3C

WASTE HEAT UTILIZATION

Wasted Heat and Aquatic Ecosystems,
W77-04869 1010 5C

Process Description and Adaptation Study,
W77-05379 1011 5G

WASTE IDENTIFICATION

Determination of Monohydric Low-Molecular Phenols in Spent Liquors and Pulp Mill Effluents (Badania nad oznaczaniem jednowodorotlenowych niskoczasteczkowych zwiazkow fenolowych w lugach i sciekach z celulozowni),
W77-02579 1006 5A

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Segregation and Reclamation of Household Wastewater at an Individual Residence,
W77-08806 1018 5D

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

Using O(xygen) D(emand) I(ndex), COD, and BOD Tests to Characterize Kraft Mill Effluent,
W77-09729 1020 5A

Characterization of Spent Bleaching Liquors. Part 1, Spent Liquors from the Chlorine and Alkali Extraction Stages in the Prebleaching of Pine Kraft Pulp,
W77-09731 1020 5A

Oil Spill Identification System.
W77-10024 1020 5A

Sample Pretreatment for Determination of Some Anions in Highly Polluted Effluents (Uprava vzorku pred stanovenim nekterych aniontu v silne znecistenych odpadnich vodach),
W77-10692 1021 5A

Analysis of Pollutants in Effluents of a Pyrolysis Factory (Analiz zagryaznenii stochnykh vod piroliznogo predpiyatiya),
W77-10698 1021 5A

Organic Compounds in Red Pine Kraft Bleaching Spent Liquor (In Japanese),
W77-10699 1021 5A

On the Properties of Waste Water Produced in Ozone Bleaching of Kraft Pulp (In Japanese),
W77-10700 1021 5A

Determination of Contaminants in Kraft Mill Condensates Using Gas Chromatography (Stanoveni kontaminujicich latek v kondenzatech ze sulfatove celulozky pomoci plynove chromatografie),
W77-10712 1021 5A

Characterization of Spent Bleaching Liquors. Part 2. Different Sequences from Prebleaching of Pine and Birch Kraft Pulp,
W77-10723 1021 5A

WASTE LOAD

Options for Improving Water Quality,
W77-05252 1011 5G

WASTE LOAD ALLOCATION

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

Stream Modeling and Waste Load Allocation,
W77-09169 1019 5B

WASTE LOADING FUNCTIONS

Loading Functions for Assessment of Water Pollution from Nonpoint Sources,
W77-09726 1020 5B

WASTE MANAGEMENT

Proceedings of Conference on Farm Animal Wastes: 'Farmer Experiences, Codes, Guidelines, Research Progress, Equipment'.
W77-01521 1003 5G

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Livestock Waste Management with Pollution Control.
W77-01534 1003 5D

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

Large-Scale Management Systems and Environmental Protection,
W77-04623 1010 5G

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

WASTE OIL DISPOSAL

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

WASTE OILS

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

WASTE PAPER

Water Reuse in 100% Secondary Fibre Pulping Mill,
W77-05705 1012 5D

WASTE RECOVERY

The Energy Potential of Municipal Solid Wastes in South Africa,
W77-01463 1003 3D

WASTE STORAGE

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Construction in the Coastal Zone: A Potential Use of Waste Materials,
W77-03916 1008 6G

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

Storage of Wastes from Watercraft and Disposal at Shore Facilities,
W77-06201 1013 5D

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

WASTE TREATMENT

Sludge Pyrolysis for Energy Recovery and Pollution Control,
W77-00025 1001 5E

Sludge Drying Beds are Practical, Part 1,
W77-00039 1001 5D

Review of the Municipal Waste Water Treatment Works Program,
W77-00043 1001 5D

Wastes Find Fertile Field as Low-Cost Plant Nutrients,
W77-00050 1001 5E

Soft Water Can Mean Hard Disposal Problems,
W77-00589 1002 5E

Wastewater Reclamation Project, St. Croix, U.S. Virgin Islands,
W77-00630 1002 5D

A Systems Approach to the Economics of Waste Handling,
W77-00745 1002 5D

Improved Anaerobic Digestion of Solid Urban Waste,
W77-01462 1003 5D

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

Livestock Waste Management with Pollution Control.
W77-01534 1003 5D

An Ecological Blueprint for Today.
W77-01548 1003 5D

An Investigation of the Separability and Reuse Potential of the Ash Component of High-Ash Content Paper Mill Sludges,
W77-01679 1004 5D

A Rotating Flighted Cylinder for Solid-Liquid Separation and Biological Waste Treatment,
W77-01815 1004 5D

Disposal of Wastewater Residuals, (Volumes 1 and 2).
W77-01984 1004 5E

Kodak Disposes of Waste in System that Helps Pay its Way,
W77-01989 1004 5D

Steel-Plant Stackgas Cleanup: An Attractive Role for Magnetism,
W77-01996 1004 5D

Landfill Management with Leachate Recycle and Treatment: An Overview,
W77-02411 1005 5D

Solid Waste Degradation Due to Shredding and Sludge Addition,
W77-02412 1005 5E

Control and Monitor Instrumentation for Must Water Processing Element, Final Report,
W77-02878 1006 5A

Ship-to-Shore Sewage Hose Handling Tests,
W77-03364 1007 5D

Concentric Waste-Treatment Plant Saves Land, Cuts Cost,
W77-03427 1007 5D

Fermentation of Waste Materials to Produce Industrial Intermediates,
W77-03563 1007 5D

Photosynthetic Purification of the Liquid Phase of Animal Slurry,
W77-04615 1010 5D

Waste Treatment Rules Won't Put 'Impossible' Burdens on Producers,
W77-04616 1010 5G

Hygienic Problems of Disposal, Treatment and Utilization of Liquid Manure,
W77-04621 1010 5D

Analysis of Liquid Manure Treatment in Hungary, with Special Regard to Environmental Protection,
W77-04622 1010 5D

Hygienic Problems of Liquid Manure Treatment on Large-Scale Farms of the County Tolna,
W77-04624 1010 5D

WASTE TREATMENT

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

Sewage Sludge Irradiation System-Applying Electron Beam Before Mixing Gap Between Endless Belts Moving at Differential Speed.
W77-04679 1010 5D

Diffusion Coefficient of Oxygen in Microbial Aggregates,
W77-04689 1010 5D

Keeping up with Sludge at WPCF,
W77-04692 1010 5D

Examination of Sewage Sludge with Special Regard to Particle Size Distribution (Klaerschlammuntersuchung Unter Besonderer Beruecksichtigung Der Teilchengroessenverteilung),
W77-04716 1010 5A

The EPA Stormwater Management Model,
W77-04738 1010 5B

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Process for Insolubilizing Potentially Water Pollutable Wastes from Sodium or Ammonium Type Sulfur Dioxide Air Pollution Control Systems,
W77-04958 1010 5D

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

Energy, Agriculture and Waste Management,
W77-05308 1011 4C

Purifying Waste Liquor-From, E.G., Sodium Carbonate Production, Ammonia Regeneration, Brine Purification, Etc.
W77-05499 1011 5D

Environmental Management '76. An Overview of Federal and Provincial Activities - Environment Canada, The Big Clean-Up Goes On,
W77-05502 1011 5G

Sludge Dewatering and Handling Practices in the U.S. Paper Industry,
W77-05714 1012 5E

Increasing the Biological Value of Activated Sludge (Povyshenie biologicheskoi tsennosti aktivnogo ila),
W77-05717 1012 5D

Waste Treatment and Solids Separating System,
W77-06104 1013 5D

New Refuse Incinerator to Burn Atomized Sludge,
W77-06125 1013 5E

Sludge Incinerator Proves a Success.
W77-06137 1013 5D

New York City Area Examines Alternative to Ocean Dumping.
W77-06143 1013 5E

Degritting and Fiber Removal System,
W77-06448 1013 5D

Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

Burning Waste Chlorinated Hydrocarbons in a Cement Kiln,
W77-06946 1014 5E

Hydrocarbon Products Manufacture--By Carbonisation of Coal, Scrap Rubber or Plastic or Domestic Sewage Under Reduced Pressure.
W77-07000 1014 5D

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

New Visibility for On-Site Waste Treatment Systems,
W77-07013 1014 5D

Fluosolids Incinerator Commissioned at Esher,
W77-07018 1014 5E

Sludge Incineration at Esher.
W77-07020 1014 5E

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

Incineration Method and System,
W77-08098 1016 5E

High Capacity Waste Water Treatment System,
W77-08566 1017 5D

Incineration Solves Tough Waste Problems.
W77-08576 1017 5E

Design Parameters for Animal Waste Treatment Systems - Nitrogen Control,
W77-09393 1019 5D

Design Criteria for Swine Waste Treatment Systems,
W77-09394 1019 5D

Conversion of Cattle Manure into Useful Products,
W77-09395 1019 5D

Manure Harvesting Practices: Effects on Waste Characteristics and Runoff,
W77-09396 1019 5D

Design Parameters for the Land Application of Dairy Manure,
W77-09397 1019 5D

Livestock and the Environment, A Bibliography with Abstracts--Volume III,
W77-09398 1019 5D

Conversion of Cattle Feedlot Wastes to Ammonia Synthesis Gas,
W77-09401 1019 5D

A Report on Studies of the Effects of Dredging and Disposal in the Great Lakes with Emphasis on Canadian Waters,
W77-09794 1020 5C

Application of the Rotating Flighted Cylinder to Livestock Waste Management,
W77-09795 1020 5D

Fermentation Technology,
W77-09896 1020 5D

Materials Recovery and Energy Production from Solid Wastes,
W77-10200 1021 5D

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Oxygenation of Aqueous Wastes: The PROST System,
W77-10608 1021 5D

Physical and Chemical Methods,
W77-10645 1021 5D

Regional Waste Disposal Act.
W77-11190 1022 6E

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

Analysis of the Impact of Delaying Compliance with 1977 Water Quality Standards,
W77-11453 1022 5G

State Water Control Board V Train (State Compliance with Effluent Limitation Deadline Mandatory Under the Federal Water Pollution Control Act Amendments).
W77-11456 1022 6E

Selected Applications of Instrumentation and Automation in Wastewater-Treatment Facilities,
W77-11761 1023 5D

How to Conduct a Wastewater Survey, Part I - Identifying Physical Characteristics of Sewer Systems,
W77-12465 1024 5G

WASTE WATE TREATMENT

Selected References on Phosphorus Removal,
W77-02740 1006 5D

WASTE WATER

Ozonation of Ammonia in Wastewater,
W77-00553 1002 5D

Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Effluent Standards: Trials and Tribulations,
W77-09554 1019 5G

WASTE WATER ABATEMENT

Specialized Internal Practices (For Pollution Abatement),
W77-05715 1012 5D

WASTE WATER DISPOSAL

Chemical Changes in the Soil Solution from a Spodosol Irrigated with Secondary-Treated Sewage Effluent,
W77-00040 1001 5E

Some Soil Hydraulic Considerations in Liquid Waste Disposal,
W77-01354 1003 5E

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

Method and Apparatus for Controlling the Discharge of Contaminants from Ships,
W77-01732 1004 5G

Disposal of Wastewater Residuals, (Volumes 1 and 2).
W77-01984 1004 5E

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

Dilution and Design,
W77-02332 1005 5E

Spray Irrigation Solves Disposal Problem,
W77-02356 1005 5D

Summary of Ground-Water Quality Impacts of Uranium Mining and Milling in the Grants Mineral Belt, New Mexico,
W77-02648 1006 5B

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

One Chemical Company's Approach to the Problem,
W77-04446 1009 5A

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

Wastewaters in the Vadose Zone of Arid Regions: Geochemical Interactions,
W77-04755 1010 2K

Ocean Dumping--Part 2.
W77-05037 1010 5E

Land Disposal of Sewage,
W77-05526 1011 5D

Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

Management Model for Wastewater Disposal on Land,
W77-05923 1012 5E

A Geographical Systems Analysis of the Water Disposal Networks of the New York Metropolitan Region,
W77-05985 1012 5D

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Water Supply and Waste Disposal, Culebra, Puerto Rico,
W77-06345 1013 5E

The Geothermal Plant at Ahuachapan in El Salvador and Its Possible Effects on the Water Quality on the Border River Rio Paz Between El Salvador and Guatemala,
W77-06382 1013 5B

Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer,
W77-06658 1014 5B

Waste Injection into Stratified Ground Water Bodies,
W77-06855 1014 5B

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

Workshop Proceedings -- Research Needs Related to Recycling Urban Wastewater on Land,
W77-07607 1016 5D

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Comprehensive Oceanographic Baseline Study at Barceloneta, Puerto Rico.
W77-08853 1018 5B

Suitability of New England Soils in Accepting Waste Effluent - Phase I,
W77-09063 1018 5E

Suitability of New England Soils in Accepting Waste Effluents, Phase II,
W77-09064 1018 5E

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

Land Application of Waste Water, A Bibliography.
W77-09265 1019 5D

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

Soil Temperatures and Heat Loss for a Hot Pipe Network Buried in Irrigated Soil,
W77-09654 1020 5D

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Mass Balance Monitoring of Land Application Sites for Wastewater Residuals,
W77-10326 1021 5B

Protecting Ground Water from Domestic Wastewater Effluent,
W77-10520 1021 5G

The (West German) Waste Water Discharge Tax Law (Das Abwasserabgabengesetz),
W77-10695 1021 5G

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Hydrogeologic Considerations in Liquid Waste Disposal,
W77-10926 1022 5E

Initial Dilution with Deepwater Diffusers,
W77-10974 1022 5B

Criminal Prosecution for Water Pollution.
W77-11192 1022 6E

Trace Metals in Open Water Disposal of Dredged Material,
W77-11780 1023 5E

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

Storage of Treated Sewage Effluent and Storm Water in a Saline Aquifer, Pinellas Peninsula, Florida,
W77-12377 1024 5E

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

Survival and Movement of Enterovirus in Connection with Land Disposal of Sludges,
W77-12434 1024 5B

Florida Installation Disperses Effluents Via Irrigation System.
W77-12436 1024 5G

Land Disposal of Sewage Sludge, Volume IV (April , 1975 - March, 1976),
W77-12791 1024 5E

Implementation of the Federal Water Pollution Control Act (Review of the Southwest Sewer District, Suffolk County, Long Island, New York).
W77-12903 1024 5G

WASTE WATER DIVERSION

Nutrient Diversion: Resulting Lake Trophic State and Phosphorus Dynamics,
W77-09604 1020 5G

WASTE WATER EVAPORATORS

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

WASTE WATER MANAGEMENT

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

WASTE WATER MANAGEMENT (APPLIED)

Management Alternatives for Land Treatment Systems,
W77-10637 1021 5G

WASTE WATER (POLLUTION)

Review of the Municipal Waste Water Treatment Works Program,
W77-00043 1001 5D

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

Identification and Analysis of Organic Pollutants in Water.
W77-00455 1001 5A

Correlation of BOD, COD and Soluble Organic Carbon,
W77-02376 1005 5A

Water Usage and Wastewater Characterization at a Crops of Engineers Recreation Area,
W77-03362 1007 5A

Report on Pollution in Las Vegas Wash and Las Vegas Bay.
W77-03371 1007 5C

Factors Affecting Powdered Carbon Treatment of a Municipal Wastewater,
W77-03430 1007 5D

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

An Automatic, Continuous, Modular Wastewater Monitoring System,
W77-03801 1008 5A

Discharge of Treated Wastewater in Lakes, (In German),
W77-04595 1009 5B

WASTE WATER (POLLUTION)

Processing of Combined Domestic Bath and Laundry Waste Waters for Reuse as Commode Flushing Water,
W77-06196 — 1013 5D

Summary of Plant Evaluation: City and County of Denver's Northside Wastewater Treatment Facility, August-September 1972.
W77-06202 1013 5D

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

Computer Simulation of Long-Term Secondary Impacts of Water and Wastewater Projects,
W77-09195 1019 5B

Waste Heat Utilization from Thermal Power Plant in New York State,
W77-10468 1021 6E

Raw Waste Loading Characteristics and Effluent Quality in the Wet Process Hardboard Manufacturing Industry,
W77-10715 1021 5D

Initial Dilution with Deepwater Diffusers,
W77-10974 1022 5B

Efficiency Problems from User Fees in Municipal Wastewater Treatment,
W77-11783 1023 5D

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

WASTE WATER PURIFICATION

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

WASTE WATER TRANSPORT

Vacuum Sewer Systems and Their Possible Canadian Applications,
W77-07558 1015 5D

WASTE WATER TREATMENT

Proceedings of the 1975 National Conference on Municipal Sludge Management and Disposal.
W77-00009 1001 5D

Institutional Problems of the Small Treatment Plant,
W77-00010 1001 5D

By-Product Solids Management Alternatives Considered for Philadelphia,
W77-00015 1001 5E

Energy Conservation Practices in Municipal Sludge Management,
W77-00018 1001 5D

Updating the 1974 Pittsburgh Conference,
W77-00019 1001 5D

High Energy Radiation in Sludge Treatment - Status and Prospects,
W77-00022 1001 5D

Management of Municipal Wastewater Treatment Residuals,
W77-00023 1001 5D

Potential Health Impacts of Sludge Disposal on the Land,
W77-00033 1001 5C

A Summary of Observations on Thermophilic Digester Operations,
W77-00035 1001 5D

Utilization of Methane from Sludge Digestion,
W77-00036 1001 5D

Processing, Economics and Sale of Heat Dried Sludge,
W77-00037 1001 5D

Cross-Flow Filtration in Physical-Chemical Treatment of Municipal Sewage Effluents,
W77-00042 1001 5D

Review of the Municipal Waste Water Treatment Works Program,
W77-00043 1001 5D

Removal vs Benefits: It Can Be Too Costly,
W77-00044 1001 5D

Discounted Cash Flow Analysis to Select Equipment,
W77-00049 1001 5D

Equalization of Time Variable Waste Loads,
W77-00052 1001 5D

Flow Approaching Filter Washwater Troughs,
W77-00053 1001 5D

Water-Reuse Systems Star at Cincinnati Aiche Meeting,
W77-00054 1001 5D

AWT Plant Begins Operations.
W77-00055 1001 5D

Automatic High Density Sludge Discharge Control Using Ultrasonics.
W77-00058 1001 5D

Wastewater Plant Design Reduces Off-Site Energy Needs.
W77-00059 1001 5D

Oxygen for Effluent Treatment.
W77-00060 1001 5D

Is Nutrient Removal Worthwhile,
W77-00065 1001 5D

Ecologically Balanced Community Wastewater Disposal Systems Management for Developing Countries,
W77-00066 1001 5D

Planning and Construction of Birmingham's Main Outfall Sewer,
W77-00072 1001 5D

Physical-Chemical Treatment Improves Iran's Urban Runoff,
W77-00077 1001 5D

An Overview: So You Want to Recycle your Wastewater. How Should You Begin. Is it Feasible,
W77-00079 1001 5D

Decrease of Bacterial Content in Different Types of Stabilization Ponds,
W77-00080 1001 5D

Wastewater Treatment by Reverse Osmosis,
W77-00081 1001 5D

Polymers Play Increased Role in Water Clarification,
W77-00082 1001 5D

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures: II. Tertiary Treatment Potential of Algae, (In Dutch),
W77-00110 1001 5D

The Elimination of Phosphates and Nitrates from Waste Water by Algal Cultures. III, (In Dutch),
W77-00111 1001 5D

Evaluation of Proposed Man-Made Ponds for Food Production to Recover Values in Waste Heat and Solid Organic Sludges,
W77-00150 1001 5D

Evaluation of Activated Sludge Control Techniques Through Pilot Plant and Computer Analyses,
W77-00157 1001 5D

Tertiary Treatment and Reuse of Animal Wastes,
W77-00158 1001 5D

Biological Purification of the Izmail Board Mill Effluents (Biologicheskaya ochistka stochnykh vod Izmail'skogo Tsellyulozno-Kartonnogo Kombinata),
W77-00322 1001 5D

Diminution of Suspended Solids in Pulp and Paper Industry Effluents by Treatment with Chemical Coagulants (Diminuarea continutului de suspensii totale in apele reziduale din industria celulozei si hirtiei, prin tratarea cu agenti chimici coagulanti),
W77-00323 1001 5D

Hydrolysis of Press Waste Waters from the Manufacture of Fiber (Insulation) Boards (Contributii la studiul procesului de hidroliza a apelor de presa din circuitul de fabricatie al P.F.L.),
W77-00324 1001 5D

Chemical-Technological Control of (Effluent) Purification Equipment (Khimiko-tekhnologicheskii kontrol' na ochistnykh sooruzheniyakh),
W77-00327 1001 5D

Waste Water Treatment at SCP (Semichemical Pulp), CGP (Chemigroundwood Pulp) Mills,
W77-00329 1001 5D

Bleachability of Softwood and Hardwood Kraft Pulps in Ozone Bleaching (In Japanese),
W77-00330 1001 5D

Color Removal from Softwood Kraft Caustic Extract Effluent by Polyamines,
W77-00335 1001 5D

Sorption on Activated Carbon of Impurities of Textile Industry Effluents (Sorpcja zanieczyszczen ze sciekow przemyslu wlokienniczego na weglu aktywnym),
W77-00339 1001 5D

Paper Chemical Reclamation and Reuse Via Reverse Osmosis,
W77-00340 1001 5D

Secondary Degradation of Sulfite Mill Waste Water by Development of Algal Masses (Sekundaerabbau von Sulfitzellstoffabwasser durch Algen-Massenentwicklungen),
W77-00341 1001 5D

Process for Purifying Industrial Waste Waters (Procede d'epuration d'eaux usees industrielles).
W77-00342 1001 5D

Process for Treating Waste Water (Verfahren zur Behandlung von Abwasser),
W77-00343 1001 5D

Sanitary-Bacteriological Evaluation of the Method of Treatment at a Small Sewage Plant, (In Russian),
W77-00350 1001 5D

Effectiveness of Wastewater Treatment at the Shostka 50th Anniversary of the USSR Chemical Plant, (In Russian),
W77-00351 1001 5D

New Method of Sewage Sludge Decontamination, (In Russian),
W77-00352 1001 5D

The Cost of Physical Chemical Treatment (PCT) Waste Water,
W77-00445 1001 5D

GS/MS (Gas Chromatographic/Mass Spectrometric) Analyses of Organic Compounds in Treated Kraft Paper Mill Wastewaters,
W77-00456 1001 5A

Centrifuge Plus Lime Limits Lignin in Waste Water,
W77-00464 1001 5D

Spent Semichemical Pulping Liquors. (V). Improvement of Color-Removal Efficiency by Photochemical Treatment (In Japanese),
W77-00465 1001 5D

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Denitrification With a Bacterial Disc Unit,
W77-00550 1002 5D

Ozonation of Ammonia in Wastewater,
W77-00553 1002 5D

Aggregation Treatment Apparatus for Waste Water,
W77-00560 1002 5D

Electrocoagulation System for Removing Pollutants from Wastewater,
W77-00562 1002 5D

Tank Clarification Plant,
W77-00563 1002 5D

Sludge Elevator for Fluid Clarification System,
W77-00564 1002 5D

Double Funnel Device for Oxygenating Sewage,
W77-00565 1002 5D

Method of Treating Waste Water,
W77-00566 1002 5D

Process and Apparatus for Treating Wastes by a combined Activated Sludge and Biological Filter Bed,
W77-00567 — 1002 5D

Apparatus for Aerobic Decomposition of Sewage,
W77-00570 1002 5D

Treating Polluted Water.
W77-00571 1002 5D

Decanting Waste Water.
W77-00573 1002 5D

Method of Wastewater Treatment,
W77-00574 1002 5D

Phosphorus Removal from Waste Water.
W77-00575 1002 5D

Apparatus for Treatment of Aqueous Sewage Composition,
W77-00577 1002 5D

Treating Sewage and Recovering Usable Water and Solids,
W77-00578 1002 5D

Highly Energy Efficient-Wilton Wastewater Treatment Plant,
W77-00579 1002 5D

Evaluation of a Sulfur-Thiobacillus Denitrificans Nitrate Removal System,
W77-00581 1002 5D

Relation of Operation and Maintenance to Treatment Plant Efficiency,
W77-00582 1002 5D

Effects of Lime Addition on Treatment Plant Operation,
W77-00583 1002 5D

The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W77-00584 1002 5D

For Nitrification - One Sludge or Two,
W77-00585 1002 5D

Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Sodium Aluminate Improves Sludge Properties,
W77-00588 1002 5D

Single-Stage Nitrification-Denitrification,
W77-00590 1002 5D

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

Don't Waste Waterweeds,
W77-00592 1002 5D

Waste-Treatment Plant Powered by On-Site Energy,
W77-00594 1002 5D

Disinfection Kinetics of Algal-Bacterial Systems,
W77-00595 1002 5D

Evaluating Pollution-Prone Strata Beneath Sewage Lagoons,
W77-00599 1002 5D

Cadmium Accrual in Combined Wastewater Treatment-Aquaculture System,
W77-00600 1002 5D

Destruction of Alkalinity in Aerobic Biological Wastewater Treatment,
W77-00606 1002 5D

Reverse Osmosis as an Advanced Treatment Process,
W77-00607 1002 5D

Denitrification of Wastewater Effluents with Methane,
W77-00609 1002 5D

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Let's Consider Land Treatment, Not Land Disposal,
W77-00614 1002 5D

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W77-00622 1002 5D

Demineralization of Wastewater by Electrodialysis,
W77-00623 1002 5D

Self-Monitoring Procedures: Basic Laboratory Skills,
W77-00624 1002 5A

Demonstration of a Planning Perspective for Waste Water Sludge Disposition Knoxville/Knox County,
W77-00626 1002 5D

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

Wastewater Reclamation Project, St. Croix, U.S. Virgin Islands,
W77-00630 1002 5D

Demonstration of a Planning Perspective for Waste Water Sludge Disposition.
W77-00631 1002 5E

The Laboratory Evaluation of a Method for Enhancing the Kinetics of Activated Sludge Treatment Plants,
W77-00633 1002 5D

Gravity Clarifier,
W77-00690 1002 5D

Treating Waste Discharge Liquids from Metal Hardening Baths, Particularly Containing Nitrite and Nitrate Compounds,
W77-00693 1002 5D

Treatment of Aqueous Waste Solution,
W77-00694 1002 5D

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Method and Apparatus,
W77-00696 1002 5D

Effluent Treatment,
W77-00697 1002 5D

Liquid Treatment Apparatus,
W77-00699 1002 5D

Packed-Bed Reactors for Nitrification and Denitrification of Secondary Effluents,
W77-00733 1002 5D

The Effluent Treatment Plant of BASF AG in Ludwigshafen/Rhine,
W77-00742 1002 5D

Purification of Industrial Waste Water - Having High Concentration of Dissolved Solids by Treatment with Strong Acids or Bases to Give Fertilisers and Feed Additives.
W77-00743 1002 5D

Effects of Selected Ions on the Removal of Chrome (III) Hydroxide,
W77-00744 1002 5D

Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

Brilliant Non-Cyanide Zinc Plating.
W77-00748 1002 5D

Fight Against Pollution and Nuisances in the French Steel Industry (Lutte contre les pollutions et nuisances dans la siderurgie Francaise),
W77-00749 1002 5D

Process for Gasifying Carbonaceous Solids and Removing Toxic Constituents from Aqueous Effluents,
W77-00751 1002 5D

Wet Air Oxidation of Alkaline Pulp Liquors.
W77-00753 1002 5D

Detoxification of Bleached Kraft Mill Effluents,
W77-00754 1002 5D

Zinc Removal from Viscose Plant Effluent - by Extraction with Alkyl Phosphoric Acid into an Organic Solvent and Re-Extraction Decomposition Therefrom.
W77-00756 1002 5D

Elimination of ZN from Wastewater of Rayon Plants by Precipitation,
W77-00757 1002 5D

Large-Scale Effluent Treatment in the Dyestuffs Industry.
W77-00758 1002 5D

Reclaiming Water,
W77-00759 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Removing Iron from Acid Waste Liquids by Oxidation - at Controlled PH by Addition of Base, Giving Easily Separated Precipitation for Large-Scale Use.
W77-00761 1002 5D

Quaternary Ammonium Salts Control Odors,
W77-00762 1002 5G

Effluent Treatment in the Paint and Surface Coating Manufacturing Industry,
W77-00764 1002 5D

Evaporation and Thermal Oxidation of Liquid Effluents - by Burning with Flame in Combustion Chamber.
W77-00765 1002 5D

Optimize the Effluent System - Part 5: Multi-Media Filters,
W77-00766 1002 5D

Precipitation of Phosphate from Solution Using Aluminum Salt,
W77-00871 1002 5D

Removal of Organics from Water,
W77-00924 1002 5D

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

Mid-Shiawassee County Concerned Citizens V Train (Environmental Impact as to a Physical-Chemical Mode of Treatment for a Waste-Water Treatment Plant).
W77-01048 1002 6E

A Feasibility/Development Study for the Removal of Ammonia from Wastewater Using Biologically Regenerated Clinoptilotite,
W77-01057 1003 5D

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Apparatus for Treating Liquids,
W77-01210 1003 5D

Method for Preventing Scale in Saline Water Desalting Apparatus and Saline Water Reclamation Apparatus for Carrying out said Method,
W77-01215 1003 3A

Method and Apparatus for the Purification of a Liquid Contaminated with Radioactive Substances,
W77-01216 1003 5D

Waste Water Treatment,
W77-01217 1003 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Chromium Removal and Recovery Process,
W77-01220 1003 5D

Heavy Metal Adsorbent Process,
W77-01226 1003 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

Conditioning Highly Radioactive Solidified Waste,
W77-01233 1003 5D

Ultraviolet Water Purifier,
W77-01234 1003 5F

A Municipal Engineer Looks at Water Pollution.
W77-01359 1003 5D

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

The Removal of Salt and Organic Material from Sewage Effluent by Anion Exchange Resins,
W77-01364 1003 5D

Dissolved Air (Pressure) Flotation - An Evaluation of Inter-Relationships Between Process Variables and their Optimisation for Design,
W77-01367 1003 5D

South African Process Eliminates Dam Pollution.
W77-01377 1003 5D

Full Scale Experimentation on the New Johannesburg Extended Aeration Plants,
W77-01441 1003 5D

Economic Aspects of Wastewater Treatment in South Africa,
W77-01444 1003 5D

The Treatment of Wastewater with a Rotating Disc Unit, (Behandeling van Afvalwater met die Draaiskyfeenheid).
W77-01455 1003 5D

The Experience with Monitoring Water Quality in Windhoek,
W77-01457 1003 5D

Treatment of Sewage with Special Reference to Aeration and Methods of Aeration,
W77-01459 1003 5D

Package Plant Owner Responsibility and Operation of Small Sewage Units,
W77-01464 1003 5D

Engineering Economics of Water Reclamation,
W77-01466 1003 5D

The Epidemiology of Reclaimed Water,
W77-01492 1003 5D

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Hygienic Assessment of Membrane Methods of Water Desalinization, (In Russian),
W77-01554 1004 5D

Hygienic Evaluation of the State of Protection of a Water Body from Pollution in the Region of an Industrial Complex, (In Russian),
W77-01555 1004 5D

Hygienic Characteristics of Wastewater Treatment Processes of Flax-Processing Plants, (In Russian),
W77-01556 1004 5D

Formation of Water Quality by Aquatic Organisms, (In Russian),
W77-01561 1004 5G

Operating Efficiency of Factory Sewage Treatment Plants, (In Russian),
W77-01577 1004 5D

Organization of Work on the Sanitary Protection of Water Bodies in the Ryazan Oblast, (In Russian),
W77-01578 1004 5D

Considerations on the Waste Water Quality and Treatment at the Antibiotics Plant from Jassy, (In Hungarian),
W77-01580 1004 5D

Laboratory Research Methodology of Waste Water Treatability by Activated Sludge Process, (In Hungarian),
W77-01582 1004 5D

The Biodegradability of Some Organic Pollutants Present in the Waste Waters Resulted from the Petroleum Refineries, (In Hungarian),
W77-01583 1004 5D

Some Results of the Full-Scale Tests of the Laboratory Researches on the Biological Treatment of Waste Waters from Hog Breeding Farms, (In Hungarian),
W77-01584 1004 5D

Modelling of Processes and Plants for Waste Water Settling, (In Hungarian),
W77-01586 1004 5D

The Waste Treatment Facility of Monadnock Paper Mills, Inc.
W77-01641 1004 5D

Introduction of a New Effluent Purification System (Vnedrenie novoi skhemy ochistki stokov),
W77-01644 1004 5D

Addition of Phosphorus Salts to Effluents (Dobavlenie solei fosfora v stochnye vody),
W77-01646 1004 5D

Biological Clarification Plant Started Up at the Wiesloch Corrugated Board Mill (Wellpappe Wiesloch nahm biologische Klaeranlage in Betrieb).
W77-01647 1004 5D

Treatment of Heavy Metals in Wastewater,
W77-01649 1004 5D

Preliminary Study of Pulp Mill Effluent Decolorization by the Method of Simultaneous Coagulation (Wstepne badania odbarwiania sciekow celulozowych metoda koagulacji symultanicznej),
W77-01650 1004 5D

Color Removal in a Ferric Chloride-Lime System,
W77-01653 1004 5D

Purification of Pulp and Paper Mill Effluents by Radiation Polymerization. I. Purification with the Use of Methyl Methacrylate (Ochistka stochnykh vod predpriyatii tsellyulozno-bumazhnoi promyshlennosti metodom radiatsionnoi polimerizatsii. I. Ochistka s primeneniem metilmetakrilata),
W77-01655 1004 5D

Use of Ozone in a Combined System for the Purification of Kraft Mill Effluents (Primenenie ozona v kombinirovannoi sisteme glubokoi ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-01656 1004 5D

Modern Methods of Purifying Pulp and Paper Mill Effluents (Sovremennye metody ochistki stochnykh vod predpriatii tsellyulozno-bumazhnoi promyshlennosti),
W77-01657 1004 5D

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

Use of Chlorine Dioxide-Alkali for High-Yield Pulping,
W77-01664 1004 5D

An Overview of New Pulp Bleaching Developments,
W77-01665 1004 5D

Bark as Non-Inert Trickling Filter Medium for Pulp Mill Effluent,
W77-01666 1004 5D

Disposal of Flexo Ink Washup Waste Water,
W77-01670 1004 5D

Uddeholm (Forest Industries) -- Kamyr Closed Bleached Plant (at Skoghall, Sweden),
W77-01671 1004 5D

Treatment of Contaminated Condensates,
W77-01672 1004 5D

Process of Extraction of Organic Substances from Pulp Mill Effluents (Procede d'extraction de substances organiques d' effluents d' usines de pate de bois).
W77-01674 1004 5D

Process and Installation for Decoloring Waste Waters (Procede et installation pour le traitement de decoloration d' eaux usees).
W77-01675 1004 5D

1975 Review of the Literature on Pulp and Paper Effluent Management,
W77-01678 1004 5D

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

Magnetization of Iron Chromium System,
W77-01709 1004 5D

Treatment of Condensates,
W77-01716 1004 5D

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Filter, Especially for Back Water,
W77-01720 1004 5D

Water Recycle Treatment System for Use in Metal Processing,
W77-01724 1004 5D

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

Dewatering Process,
W77-01738 1004 5D

Purification of Industrial Waste Waters by Flotation,
W77-01740 1004 5D

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Modular Aerator and Separator Assembly for Sewage Treatment Facility,
W77-01743 1004 5D

Method of Biological Purification of Sewage,
W77-01746 1004 5D

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Separation Chamber, Holding Tank, Drainage System,
W77-01750 1004 5D

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

Enteric Virus Survival in Package Plants and the Upgrading of the Small Treatment Plants Using Ozone,
W77-01809 1004 5D

Water Pollution Control Act of 1972, Costs and Capabilities, Water Treatment Systems,
W77-01963 1004 5D

Water Pollution Abatement Technology, Capabilities and Costs, Publicly Owned Treatment Works, (Volumes 1, 2 and 3).
W77-01982 1004 5D

Disposal of Wastewater Residuals, (Volumes 1 and 2).
W77-01984 1004 5E

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Dye Catalyzed Oxidation of Industrial Wastes,
W77-01988 1004 5D

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Physical-Chemical Methods for the Recovery of Protein from Waste Effluent of Potato Chip Processing,
W77-01991 1004 5D

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Viscous Product from Activated Sludge by Methanol Fermentation,
W77-01994 1004 5D

Removal of Potassium from Sugar Industry By-Products.
W77-01995 1004 5D

Removal of Heavy Metals from Industrial Effluents,
W77-01997 1004 5D

Foamy Complex Formation for Removing and Recovering of Heavy Metal Ions in Dilute Solutions with N-Monodecanoyl Diethylenetriamine,
W77-01998 1004 5D

Electrochemistry,
W77-01999 1004 5D

The Effect of Gamma Irradiation on Pulp and Paper Mill Effluents,
W77-02000 1004 5D

Continuous Treatment of Wool Wash Liquid - Efficiency Increased by Supplementary Closed Contaminant Treatment Circuit Linked to Liquid Cleaning Circuit.
W77-02002 1004 5D

Removing Polyvinyl Alcohol from Textile Finishing Waste Water - by Adding a Binder, e.g., a Salt or Formaldehyde, to Insolubilise the Polymer.
W77-02003 1004 5D

Long-Term Biodegradability of Textile Chemicals,
W77-02004 1004 5D

Laundering and Dry-Cleaning,
W77-02005 1004 5D

On Spent Liquor of Semichemical Pulping (V). Improvement of the Color Removal Efficiency by the Photochemical Treatment (SCP haieki ni tsuite (V). Shigaisen shori ni okeru shosha koritsu no kojo),
W77-02008 1004 5D

A Bioassay to Assess Wastewater Toxicity to Aerobic Biological Treatment,
W77-02081 1005 5D

A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

Aqueous Halogen Equilibria, Case I. Halogen in Pure Water,
W77-02150 1005 5D

Development of Design and Operating Criteria for Handling Advanced Waste Treatment Plant Sludge,
W77-02188 1005 5D

Removal of Viruses from Water by Magnetic Filtration,
W77-02214 1005 5D

The Influence of Waste Waters on Algae in the Open Collector of Zagreb at Ivanja Rijeka, (In Croatian),
W77-02268 1005 5C

Suspended Sludge Scraper for Arcuate Sedimentation Zone,
W77-02335 1005 5D

Clarification Plant,
W77-02337 1005 5D

Freeing Waste Water from Nitrogenous CPDS - Using Partially Oxidised Sludge as Source of Organic Carbon.
W77-02339 1005 5D

Sewage Surface Aerator - Without Axial Thrust Thus Reducing Vibration from Waves.
W77-02342 1005 5D

Coleshill Advanced Wastewater Treatment Project,
W77-02344 1005 5D

Advanced Waste Treatment Plant has Physical-Chemical Option.
W77-02345 1005 5D

Phosphorus Removal with Alum from Secondary Effluent,
W77-02346 1005 5D

Denitrification of Nitrified Septic Tank Effluent,
W77-02347 1005 5D

Waste Water Processing with HGMS (High Gradient Magnetic Separators),
W77-02348 1005 5D

Nitrification in High-Sludge Age Contact Stabilization,
W77-02349 1005 5D

Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

Heavy Metals-Induced Deflocculation of Activated Sludge,
W77-02352 1005 5D

Salt Water Domestic Waste Treatment,
W77-02353 1005 5D

Solar Sewage Plant 75% Energy Self-Sufficient.
W77-02354 1005 5D

The Influence of the Raw Water Conditioning on the Working Data of a Reverse Osmosis Plant to Produce Ultra-Pure Water (Einfluss der Rohwasserkonditionierung auf Betriebsdaten einer Umkehrosmose-Anlage zu Reinstwassererzeugung),
W77-02355 1005 5D

Spray Irrigation Solves Disposal Problem,
W77-02356 1005 5D

Feasibility of High-Energy Electron Treatment of Municipal Sludge,
W77-02357 1005 5D

Wastewater Reuse-Industrial, Municipal, or Both,
W77-02358 1005 5D

Glass Coated Steel Tanks.
W77-02361 1005 8G

Efficiency of Diffused Aeration Systems in Wastewater Treatment,
W77-02362 1005 5D

Degradation of NTA Acid During Anaerobic Digestion,
W77-02364 1005 5D

Digestion is a Good Egg in Los Angeles,
W77-02365 1005 5D

Pilot Plant Travels on Wheels.
W77-02366 1005 5D

Fluid-Bed Reactor May Cut Sewage Costs.
W77-02367 1005 5D

Thermophillic Bio-Oxidation of High-Strength Organic Wastewaters and Sludges,
W77-02369 1005 5D

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Recovery and Reuse of Alum from water Filtration Plant Sludge by Ultrafiltration,
W77-02371 1005 5D

Aspects of Sludge Treatment,
W77-02372 1005 5D

A Discourse on the Biochemical Oxidation of Sewage,
W77-02373 1005 5D

Polymers Cut Cost of Phosphorus Removal,
W77-02374 1005 5D

Toward a More Meaningful Index of Sludge Quality,
W77-02378 1005 5G

Theoretical Model for a Submerged Biological Filter,
W77-02385 1005 5D

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Fabricated and Reclaimed Rubber Segment of the Rubber Processing Point Source Category,
W77-02415 1005 5D

Removal Benefits: It Can Be Too Costly,
W77-02436 1005 5D

Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

Factors Affecting the Adsorption of Polio Virus to Magnetite in Water and Wastewater,
W77-02530 1005 5D

The Role of Solar Ultraviolet Radiation in 'Natural' Water Purification,
W77-02552 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Plywood, Hardboard and Wood Preserving Segment of the Timber Products Processing Point Source Category,
W77-02554 1005 5G

Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Investigations of Effluent Characteristics from Conventional and Oxygen Bleaching Sequences: Results of Laboratory Studies,
W77-02563 1005 5D

New Biological Clarifier of the Wiesloch Paper Mill of Holfelder-Werke GMBH. Und Co. KG. (Neue biologische Klaeranlage der Papierfabrik Wiesloch der Holfelder-Werke GmbH und Co. KG.),
W77-02566 1005 5D

New Clarifier Installation for Albbruck Paper Mill (Neue Klaeranlage der Papierfabrik Albbruck).
W77-02567 1005 5D

Environmental Protection in the Pulp and Paper Industry, Possibilities of Realization and Present State of Technology (Umweltschutz in der Zellstoff- und Papierindustrie, Moeglichkeiten der Realisierung und heutiger Stand der Technik),
W77-02568 1005 5D

Modern Separation Processes for Eliminating Waste Water and Sludge Problems in Pulp and Paper Mills (Neuzeitliche Trennungsverfahren zur Beseitigung des Abwasser und Schlammproblemes in Zellstoff- und Papierfabriken),
W77-02569 1005 5D

Treatment of Papermaking Effluents (Traitement d'effluents de papeteries),
W77-02570 1005 5D

Fixed Biological Surfaces -- Wastewater Treatment: The Rotating Biological Contractor,
W77-02571 1005 5D

Carpet and Rug Industry Case Study I: Water and Wastewater Treatment Plant Operation,
W77-02574 1005 5D

Purification of Waste Waters at Cellulose Attisholz (Epuration des eaux residuaires a la fabrique de Cellulose de Attisholz),
W77-02577 1006 5D

Investigation of Commercial Chrome-Tanning Systems: Part VI. Full-Scale Trials of Chrome Liquor Recycling and the Importance of Salt Concentration,
W77-02594 1006 5D

The Control of Water Pollution and the Disposal of Solid Wastes in the Industries Producing Basic Inorganic Chemicals,
W77-02595 1006 5D

Incineration of Industrial Wastes,
W77-02596 1006 5E

The Catalytic Wet Oxidation of Strong Waste Waters,
W77-02597 1006 5D

Application of Ultra Filtration/Reverse Osmosis Technique for the Fractionation of Cheese Whey - A Waste Disposal of the Dairy Industry,
W77-02598 1006 5D

Aerobic and Anaerobic Microbial Treatment Alternatives for Shellfish Processing Wastewaters in Continuous Culture,
W77-02599 1006 5D

Wastewater Requirements Multiply Solids Problems,
W77-02601 1006 5G

Impact of Water Conservation in the Design of Modern Oil Refineries,
W77-02602 1006 5D

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W77-02603 1006 5D

Handling Discharges from Waste Oil Processing,
W77-02604 1006 5D

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Chemical Pulping,
W77-02606 1006 5B

Biological Process for Effluent and Waste Treatment as Applied in the Paper Industry,
W77-02607 1006 5D

Advanced Treatment of Pulp Waste Water (Parapu haisui no kodo shori),
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Some Internal Measures for the Reduction of the Effluent Load Shown by the Example of a Calcium-Bisulphite Pulpmill (Eingeinnerbetriebliche Massnahmen zur Verminderung der Verfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02609 1006 5D

Waste Treatment Advances: Waste Water Treatment Via Activated Carbon,
W77-02610 1006 5D

Quebec Environmental Regulations in the Textile Industry...And One Company's Solution,
W77-02611 1006 5G

Treating Effluent Containing Compounds Pref. Dyes - By Adding Salt Generator of Opposite Charge to Effluent Ion then Ultra-Filtering.
W77-02612 1006 5D

Air and Water Purification - with Acid Chlorite Solution.
W77-02613 1006 5D

Leather Industry Effluent Purification - By Acidification Prior to Lime Treatment and Separation by Flotation.
W77-02614 1006 5D

The Purification of Industrial Effluent.
W77-02615 1006 5D

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

Improving Design Criteria for Septic Tank Systems,
W77-02621 1006 5D

The Manufacture and Use of Selected Alkyltin Compounds, Task II,
W77-02634 1006 5B

Removal of Toxic Chemicals from Water with Activated Carbon,
W77-02707 1006 5D

Phosphorus Removal Demonstration Study Using Ferric Chloride and Alum at C.F.B. Uplands,
W77-02738 1006 5D

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W77-02747 1006 5D

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Pilot Scale Evaluation of a Physical-Chemical Wastewater Treatment System for Combined Sewer Overflows.
W77-02757 1006 5D

Modification of the Traditional Sequence for the Treatment of Wastewaters from Metal Finishing Installations,
W77-02762 1006 5D

Removal and Recovery of Metals from Sludge and Sludge Incinerator Ash,
W77-02763 1006 5D

Chromium Recovery from Sludges Produced from Chromate-Inhibited Cooling Water,
W77-02874 1006 5D

Silica in Water in Relation to Cooling Tower Operation,
W77-02875 1006 5D

Control and Monitor Instrumentation for Must Water Processing Element, Final Report,
W77-02878 1006 5A

Chemical Composition and Methods for Purifying Phenolic Waste Waters Resulting from Rapid Thermolysis of Lignites of the Irsha-Borodino and Moscow Regions,
W77-02993 1006 5D

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W77-03057 1006 5D

An Evaluation of Aqueous Phase Catalytic Oxidation,
W77-03079 1007 5D

Treatment of Livestock Wastes by a Barriered Landscape Water Renovation System,
W77-03116 1007 5D

Characterization and Dewaterability of Water Treatment Plant Residues,
W77-03130 1007 5D

Utilization of Municipal Waste Water for Froth Flotation of Copper and Molybdenum Sulfides,
W77-03132 1007 5D

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

The Kinetics of Adsorption of Phenols by Granular Activated Carbon,
W77-03149 1007 5D

Dynamic Response of Final Settling Tanks to Transient Loading Conditions,
W77-03156 1007 5D

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

A Study on the Application of Biogrowth Sheets to Improve Lagoon Effluent Quality,
W77-03162 1007 5D

Liming Farmland with Calcium Sludge,
W77-03163 1007 5D

The Rotating Biological Filter,
W77-03282 1007 5D

Land Based Sewage Sludge Management Alternatives for Los Angeles: Evaluation and Comparison,
W77-03289 1007 5D

System for Dewatering Dilute Slurries,
W77-03352 1007 5D

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

Chlorine Disinfection of Treated Wastewater in a Baffled Contact Chamber at Less Than 1 C,
W77-03363 1007 5D

Advanced Trickling Filter for Wastewater Treatment,
W77-03365 1007 5D

Ammonia Removal from Wastewater by Ligand Exchange,
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Activated Sludge Waste Water Treatment Process - Using Succession of Aerobic and Anaerobic Zones to Remove Nitrogenous Material.
W77-03402 1007 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues.
W77-03403 1007 5D

Biological Treatment of Sewage Waters - Device with Internal Aeration Zone,
W77-03404 1007 5D

Sludge Collector and Light Liquid Separator-From Sewage with Two Tanks in Single Housing and Cover.
W77-03405 1007 5D

Sewerage Treatment Apparatus,
W77-03406 1007 5D

Coagulation Clarifying Effluents Contaminated with Colloid Suspensions-By Electrophoresis After Mixing in Insoluble Metallic Particles.
W77-03408 1007 5D

Centrifuge for Dewatering Sewage Sludge.
W77-03410 1007 5D

Integral Circular Wastewater Treatment Plant.
W77-03411 1007 5D

Denver's Headworks Reflects Complexity of System,
W77-03412 1007 5D

Combined Process of Pyrolysis and Combustion for Sludge Disposal,
W77-03415 1007 5D

Dorr-Oliver to Market Ecolotrol Waste Water Treatment Process.
W77-03417 1007 5D

High Gradient Magnetic Filtration,
W77-03418 1007 5D

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

Use of Sludge Left After Waste Water Decantation as a Fertilizer or Soil Conditioner (Les Boues de Decantation d Eau Residuaires Utilisees Comme Fertilisant ou Comme Conditionneur de Sols),
W77-03421 1007 5D

Specific Role of Lime in Municipal Waste Water Treatment-Expectations and Reality (Die Spezifische Rolle Des Kalks in Der Kommunalen Abwasserreinigung-Erwartungen Und Realitaeten),
W77-03422 1007 5D

Origin of Nitrogen Pollution in Surface and Waste Waters (Origines Des Pollutions Azotees Dans Les Eaux Superficielles Et Les Eaux Usees),
W77-03423 1007 5D

Sludge - Where Will We Put It,
W77-03424 1007 5E

Activated Carbon From Activated Sludge,
W77-03425 1007 5D

Design and Control of Nitrifying Activated Sludge Systems,
W77-03426 1007 5D

Concentric Waste-Treatment Plant Saves Land, Cuts Cost,
W77-03427 1007 5D

The Rotor Aerator: Growing Use In U.S. Waste-Treatment Plants.
W77-03428 1007 5D

Elemental Distribution Diagrams for Biological Wastewater Treatment,
W77-03429 1007 5D

Factors Affecting Powdered Carbon Treatment of a Municipal Wastewater,
W77-03430 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Shelters Boost Winter Treatment Efficiencies,
W77-03432 1007 5D

The Application of the Foam Fractionation Process to the Removal of Viruses. Part I. The Production of a Mathematical Model to Predict the Efficiency of Virus Removal,
W77-03433 1007 5D

Effluent Variability Estimation for Complete-Mix Activated Sludge Treatment Systems,
W77-03434 1007 5D

Behaviour in Conventional Sewage Purification Processes of Coliform Bacteria with Transferable or Non-Transferable Drug-Resistance,
W77-03435 1007 5D

Correlation Between BOD - TOC - TOD (Zusammenhang Zwischen BSE5 - TOC - TOD),
W77-03436 1007 5D

Sewage Plant for British Virgin Islands.
W77-03437 1007 5D

Small Village Gets Advanced Treatment.
W77-03440 1007 5D

Biochemical Mechanisms in the Methane Fermentation of Glutamic and Oleic Acids,
W77-03441 1007 5D

Large Scale Sewage Treatment Plant with Sludge Incinerator.
W77-03442 1007 5D

Comparison of Air and Oxygen Activated Sludge Systems,
W77-03443 1007 5D

Oxygen and Air Activated Sludge: Another View,
W77-03444 1007 5D

Ultraviolet Disinfection: An Alternative to Chlorination,
W77-03445 1007 5D

Flow Equalization by Use of Aeration Tank Volume,
W77-03446 1007 5D

Virus and Bacterial Removal from Waste Water by Land Treatment,
W77-03447 1007 5D

Heat Inactivation of Poliovirus in Waste Water Sludge,
W77-03448 1007 5C

An Operator's Approach to Aerobic Digester Supernatant Disposal Problems,
W77-03449 1007 5D

Supernatant Decanting of Aerobically Digested Waste Activated Sludge,
W77-03450 1007 5D

Intermittent Sand Filtration of Household Wasterwater,
W77-03452 1007 5D

Tertiary Treatment of Sewage Effluents,
W77-03453 1007 5D

Minimizing the Waste Discharges from Water Treatment Plants,
W77-03455 1007 5D

Laboratory Studies on the Effects of Temperature on Accumulation of Solids in Biological Filters,
W77-03464 1007 5D

Nitrate Monitoring.
W77-03468 1007 5A

Automation: A Short History, But a Long Future,
W77-03469 1007 5D

The Limitation of the Ratio of Fecal Coliforms to Total Coliphage as a Water Pollution Index,
W77-03472 1007 5A

Effect of Variable Loading on Oxygen Uptake,
W77-03473 1007 5D

Transferable Drug Resistance Associated with Coliforms Isolated from Hospital and Domestic Sewage,
W77-03478 1007 5A

Infiltration/Inflow - The Kansas Connection,
W77-03479 1007 5G

A Study of Substrate Removal in a Microbial Film Reactor,
W77-03480 1007 5D

Innovation is an Old Idea--With A Big Future,
W77-03482 1007 5D

Grant Aid for Plant Operations: An Evaluation,
W77-03483 1007 5G

Risk of Communicable Disease Infection Associated with Waste Water Irrigation in Agricultural Settlements,
W77-03485 1007 5C

Removal of BOD and Nitrogenous Pollutants from Wastewaters,
W77-03486 1007 5D

Comparative Assessment of the Effectiveness of Certain Methods Making Industrial Effluents Noncarcinogenic, (In Russian),
W77-03488 1007 5D

Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

Organic Chemicals Manufacturing Point Source Category-Effluent Limitations and Guidelines (Amendments to Regulations-Butadiene).
W77-03528 1007 5G

Variations of Coliform Bacteria and Other Pollution Indices in Surface Waters.
W77-03539 1007 5B

The Cost of Producing Effluents to Varying Standards by Biological Treatment Techniques,
W77-03568 1007 5D

Recent Developments in the Use of Polyelectrolytes,
W77-03569 1007 5D

Sodium Bicarbonate Neutralizes,
W77-03570 1007 5D

Effect of High Dissolved Oxygen Concentration in Activated Sludge Systems,
W77-03571 1007 5D

Sludge Drying Beds are Practical: Part 2,
W77-03572 1007 5D

Inhibiting Nitrification in Wastewater Treatment Plants,
W77-03573 1007 5D

Experiments on Wastewater Sedimentation,
W77-03574 1007 5D

Aeration and Oxygen Transfer in Biological Reactors,
W77-03575 1007 5D

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Wastewater's Future is Cloudy,
W77-03577 1007 5D

Oxygen Transfer in a 23-Meter Bubble Column,
W77-03579 1007 5D

An Economic Evaluation of Deep Tank Aeration for Wastewater Treatment,
W77-03580 1007 5D

An Investigation of Condensates and Their Contribution to Effluent Disposal from Sugar Mills. Part II. Studies on the Removal of Ethanol from Condensates,
W77-03601 1008 5D

Tall Order in Waste Treatment,
W77-03602 1008 5D

Chemical-Industry Costs of Water Pollution Abatement,
W77-03604 1008 5D

The Use of Macroreticular Polymeric Adsorbents for the Treatment of Waste Effluents,
W77-03605 1008 5D

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

Nestle and Pollution Control,
W77-03607 1008 5D

Treatment of Putrefactive Meat and Fish Waste -- for Preparation of Manure, Animal Feeds and Fuel Oil,
W77-03608 1008 5D

Pilot Scale High Gradient Magnetic Filtration of Steel Mill Wastewater,
W77-03609 1008 5D

Reverse Osmosis for the Treatment of Metal Waste Solutions,
W77-03610 1008 5D

Continuous Bowl-Type Centrifuges for the Clarification and Dehydration of Sludges from the Paper Industry (Centrifugeuses Continues A Bol Plein Pour Clarification et Deshydration des Boues Dans L'Industrie Papetiere).
W77-03613 1008 5D

Characteristics of Effluents from Conventional and Oxygen Bleaching Sequences,
W77-03614 1008 5A

Potentials of Using Spent Oxygen Bleaching Liquor in the Sulphite Process,
W77-03615 1008 5D

Solvent and Solvency -- A Solution to Sludge Problems,
W77-03616 1008 5D

Purifying and Regenerating Gaseous and Fluid Phase Effluents -- Such as Ammonia Mixtures from Wool Processing, Mercerising Etc.
W77-03617 1008 5D

Evaluation of Wastewater Treatment Facilities.
W77-03619 1008 5D

A New Laboratory Device for Waste Water Analyses (Respirometer). Part II. Measurements with Batch Operation (UJ Laboratoriumi Szennyvisvizsgalo Keszulek (Respirometer) II. Resz. Meresek Szakaszos Uzemmod Mellett),
W77-03621 1008 5A

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Purification of Effluents from the Manufacture of Paper and Board by Electrochemical Method (Ochistka stochnykh vod kartonnogo-bumazhnogo proizvodstva elektrokhimicheskim metodom),
W77-03789 1008 5D

Purification of Technical Paper Mill Effluents (Ochistka stochnykh vod fabriki tekhnicheskikh bumag),
W77-03792 1008 5D

Chlorine-Based Bleachery Effluent Treatment,
W77-03806 1008 5D

Purification of Residual Liquor from Yeast Production (Ochistka posledrozhzhevoi brazhki),
W77-03811 1008 5D

Synthetic Flocculants for the Purification of Kraft Mill Effluents (Sinteticheskie flokulyanty dlya ochistki stochnykh vod sul'fatno-tsellyuloznogo proizvodstva),
W77-03812 1008 5D

Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

Electrochemical Purification of Effluents from the Manufacture of Sulfite and Kraft Pulps (Elektrokhimicheskaya ochistka stochnykh vod ot proizvodstva sul'fitnoi i sul'fatnoi tsellyulozy),
W77-03815 1008 5D

Operating Experiences with an Electrolytic Method for Purifying NSSC (Neutral Sulfite Semichemical) Effluent (Betriebserfahrungen mit einem elektrolytischen Verfahren bei der Reinigung von NSSC-Abwasser),
W77-03820 1008 5D

Effect of Dyes Used in the Textile Industry on the Purification of Effluents by the Activated Sludge Process (Wplyw niektorych barwnikow stosowanych w przemysle wlokienniczym na oczyszczanie sziekow osadem czynnym),
W77-03821 1008 5D

Biological Effluent Clarification in the Paper Mill Circulation System (Biologische Abwasseraufbereitung im Kreislauf einer Papierfabrik),
W77-03824 1008 5D

Adsorption Biooxidation Treatment of Waste Waters to Remove Contaminants Thereform,
W77-03865 1008 5D

Phosphorus Removal from Wastewater,
W77-03867 1008 5D

Device for Purifying Sewage,
W77-03869 1008 5D

Method and Apparatus for Anaerobic Fermentation,
W77-03873 1008 5D

Public Choice and Urban Water Quality,
W77-03960 1008 6B

Physical and Economic Parameters for Planning Regional Wastewater Treatment Systems,
W77-04010 1008 5D

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

On the Counterplan for Treatment of Foul Water Which Oozed Out from A Dumping Ground, (In Japanese),
W77-04066 1008 5D

Sucrose Removal from Cane Sugar Mill Waste Streams by Ion Exchange,
W77-04142 1009 5D

Assessing Treatment Process Efficiency with the Algal Assay Test,
W77-04164 1009 5D

Alternative Methods of Financing Wastewater Treatment,
W77-04167 1009 5G

A Comparison of Inactivation of Bacteriophage and Enterovirus During Activated Sludge Treatment,
W77-04180 1009 5D

Treatment of Wood Preserving Wastewater,
W77-04181 1009 5D

An Analysis of U.S. Environmental Protection Agency's Needs Survey,
W77-04308 1009 5G

Butadiene Limitations, Guidelines and Standards; Amendment.
W77-04368 1009 5G

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Enteric Virus Removal from Septic Tank Effluent by Pilot Scale Soil Absorption Systems,
W77-04389 1009 5D

Aromatic Nitro-Oxygen Compounds Removal from Waste Water-by Treatment of Strongly Basified and Filtered Waste with Activated Carbon,
W77-04445 1009 5D

One Chemical Company's Approach to the Problem,
W77-04446 1009 5A

Wash Water Recycling by Catalytic Oxidation of Thiosulfates and Sulfites,
W77-04447 1009 5D

SWECO CSC System Installed at Turkey Processing Plant.
W77-04448 1009 5D

Combined Treatment of Industrial and Municipal Waste Waters by Activated Sludge. Pilot Plant Scale Experiments (Oczyszczanie Odciekow Z Produkcji Drozdzy Paszowych NA Wywarze Melasowym Wspolnie Ze Sciekami Miejskimi. Badania W Skali Cwierctechnicznej),
W77-04449 1009 5D

High Yield Stripping Column for Alcoholic Solutions--With Recovery of By-Products to Avoid Pollution,
W77-04450 1009 5D

Copper Removal from Waste Water-By Precipitation with an Alkaline Salt of an Organic Acid,
W77-04451 1009 5D

Selective Separation of Nickel(II) by Dimethylglyoxime-Treated Polyurethane Foam,
W77-04452 1009 5D

Closed Loop Water Recycling System Solves Waste Problem,
W77-04453 1009 5D

Concentration of Oily and Latex Waste Waters Using Ultrafiltration Inorganic Membranes,
W77-04454 1009 5D

Basin Agencies and the Fight Against Industrial Pollution (Les Agences de Bassin et la Lutte Contre la Pollution Industrielle),
W77-04457 1009 5D

Removal of Sulfate from Industrial Waste Waters,
W77-04458 1009 5D

Removal of Viscose from Waste Water-By Treatment with Mixed Microorganisms in a Highly Alkaline Medium,
W77-04459 1009 5D

Recovering Polyvinyl Alcohol from Waste Water-By Coagulating with Borate and Inorganic Salt in Presence of Quaternary Ammonium Compound to Reduce Water Content of Gel.
W77-04460 1009 5D

Pollution Control in the Textile Industry (Exemple D'Action Dans L'Industrie Textile),
W77-04461 1009 5D

Game Theory Approach to Design Under Uncertainty,
W77-04504 1009 5D

North Carolina Swine Operation Solves Odor, Wastewater Problems,
W77-04618 1010 5G

Industrial Effluent Treatment: Physico-Chemical and Biochemical Options, (Part II),
W77-04633 1010 5D

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

An Evaluation of Land Treatment of Municipal Waste Water and Physical Siting of Facility Installations,
W77-04635 1010 5D

Human Enteric Viruses in a Waste-Recycling Aquaculture System,
W77-04636 1010 5D

Development and Application of a Simplified Stormwater Management Model,
W77-04637 1010 5D

Assessment of Mathematical Models for Storm and Combined Sewer Management,
W77-04638 1010 5D

Methodology for the Study of Urban Storm Generated Pollution and Control,
W77-04640 1010 5D

Overland Flow Treatment of Raw Wastewater with Enhanced Phosphorus Removal,
W77-04641 1010 5D

Nutrient Control by Plant Modification at El Lago, Texas,
W77-04642 1010 5D

Characterization and Treatment of Combined Sewer Overflows,
W77-04644 1010 5D

Process Alternatives for Removal of Carbonaceous, Nitrogenous, and Phosphorus Materials from Concentrated Waste Streams,
W77-04645 1010 5D

Reverse Osmosis Study on Must Wastewater Treatment,
W77-04646 1010 5D

Land Application of Wastewater: The Fate of Viruses, Bacteria and Heavy Metals at a Rapid Infiltration Site,
W77-04647 1010 5D

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Evaluation of the Use of Sludge Containing Plutonium as a Soil Conditioner for Food Crops,
W77-04649 1010 5D

Evaluation of Rotary Vacuum Precoat Filtration for Sludge Dewatering,
W77-04650 1010 5D

Wastewater Treatment Facility Evaluation, Rickenbacker AFB OH,
W77-04651 1010 5D

Force Main Sewer Line Uses Polyethylene Pipe.
W77-04659 1010 8G

Simulated Field Study for I/I Analysis,
W77-04662 1010 5D

Set Sewer Rates That Reflect Use,
W77-04663 1010 5G

California Cities Launch $2 Billion in Sewerage Jobs.
W77-04665 1010 5G

Automatic Clarity Control of Overflow from Sedimentation Tank-With Sludge Pump Actuated by Photo-Electric Check of Sample Liquid.
W77-04668 1010 5D

Sludge Settling Basin,
W77-04669 1010 5D

Waste Water Denitrification-By Process Comprising Biological Denitrification and Nitrification Steps.
W77-04670 1010 5D

Biological Treatment of Effluent Containing Activated Sludge-Involves Continuously Introducing Oxygen (Contg. Gas) and Feeding the Outlet Gas to a Burner.
W77-04671 1010 5D

Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

Settled Sludge Removal.
W77-04673 1010 5D

Effluent Waste Treatment Process and Apparatus.
W77-04674 1010 5D

Apparatus and Method for Denitrification of Waste Water,
W77-04676 1010 5D

Tertiary Filter for Waste Treatment,
W77-04677 1010 5D

Screening Apparatus for Removal of Solids - From Sewage with Rotating Screen and Vertical Lift for Residues,
W77-04678 1010 5D

Rotary Drum Evaporative Dryer Especially for Sewage Sludge - Controls Drying Film Thickness by Adjusting Inclination of Drum Axis,
W77-04680 1010 5D

Aerobic Type Sewage Digestion System,
W77-04681 1010 5D

Activated Sludge Treatment-Passing all Sewage by Force Pump Through Atmospheric Air Entraining Enjectors into Activation Tank,
W77-04682 1010 5D

Stirring Apparatus for Waste Water Purification - By Injection of Gas in Biological Treatment Tank,
W77-04683 1010 5D

Primary Survey of the Inventories of Rural Public Utilities (Premier Apercu Sur Les Inventaire Des Equipments Publics Ruraux),
W77-04684 1010 5D

Biological Purification of Urban Wastewaters By Means of Rotating Biological Disks (Epuration Biologique Des Eaux Usees Urbaines Au Moyen De Disques Biologiques Tournants),
W77-04685 1010 5D

Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

Developments at Water Research Centre.
W77-04688 1010 5D

AWT at Woodlands, Texas,
W77-04690 1010 5D

Sodium Bicarbonate Aids Plant Switchover,
W77-04691 1010 5D

Waste Water Treatment by Heated Rotating Biological Discs,
W77-04693 1010 5D

How to Keep an Old Plant Running,
W77-04694 1010 5D

Optimization of Multistage Secondary Clarifier,
W77-04695 1010 5D

Many Design Problems Overcome in Staten Island Plant,
W77-04696 1010 5D

Sewage to Aid City Power Plant.
W77-04697 1010 5D

Whither Village Sewage,
W77-04698 1010 5D

Effluent and Water Treatment: The Economics of Lime Dosing and In-House Waste Treatment.
W77-04699 1010 5D

Sludge Bulking Control with Bicarbonates,
W77-04700 1010 5D

Solving an Interim Problem of Treatment Plant Overload,
W77-04701 1010 5D

Ozone Makers Hope to Replace Chlorine in Sewage Uses.
W77-04702 1010 5D

Reconcentration of Poliovirus from Sewage,
W77-04703 1010 5D

Rising to Sewage Problems.
W77-04704 1010 5D

Subsurface Application Solves Community's Sludge Disposal Problem.
W77-04707 1010 5D

Comparison of Talc-Celite and Polyelectrolyte 60 in Virus Recovery From Sewage: Development of Technique and Experiments with Poliovirus (Type 1, Sabin)-Contaminated Multilitre Samples,
W77-04708 1010 5D

Coliphage Interference in the Recovery of Coliform Bacteria,
W77-04709 1010 5D

Biological and Physical Characterization of Activated Sludge: A Comparative Experimental Study at Ten Treatment Plants,
W77-04710 1010 5D

Virus Movement in Soil Columns Flooded with Secondary Sewage Effluent,
W77-04712 1010 5B

Membrane Filter Method for Recovery of Fecal Coliforms in Chlorinated Sewage Effluents,
W77-04713 1010 5D

Characterization of Septic Tank Effluent-A Statistical Analysis,
W77-04714 1010 5A

Examination of Sewage Sludge with Special Regard to Particle Size Distribution (Klaerschlammuntersuchung Unter Besonderer Beruecksichtigung Der Teilchengroessenverteilung),
W77-04716 1010 5A

Determining Stability of Sludge From Aerobic Digesters,
W77-04719 1010 5D

How to Control Biological Waste-Treatment Processes,
W77-04722 1010 5D

Is There a 'Sludge Market',
W77-04727 1010 5E

The WRE Storm Model,
W77-04737 1010 5B

The EPA Stormwater Management Model,
W77-04738 1010 5B

Decision-Making for Water Quantity and Quality Control,
W77-04739 1010 5D

Three Case Studies on the Application of the Storm Water Management Model,
W77-04742 1010 5B

Water and Wastewater Treatment,
W77-04794 1010 5D

Application of Weak Base Ion-Exchange Resins for Removal of Proteins,
W77-04802 1010 5D

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W77-04807 1010 5D

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W77-04810 1010 5D

Influence of Retention on the Treatment of Effluents (Influence de la retention sur le traitement des effluents),
W77-04811 1010 5D

Water and Paper (L'eau et le papier),
W77-04812 1010 5D

Experiences with the Thickening and Burning of Biological and Nonbiological Sludges (Erfahrungen bei der Entwaesserung und Verbrennung von biologischen und nichtbiologischen Schlaemmen),
W77-04814 1010 5E

Sorption of Organic Impurities from Textile Industry Effluents on Ion-Exchangers (Sorpcja zanieczyszczen organicznych ze sciekow przemyslu wlokienniczego na jonitach),
W77-04819 1010 5D

Use of Oxygen for Purification of Pulping Effluents by the Activated Sludge Method (Zastosowanie tlenu do oczyszczania sciekow pocelulozowych metoda osadu czynnego),
W77-04820 1010 5D

Purification of Effluents from Barking Beech and Pine (Badania nad oczyszczaniem sciekow z korowalni drewna bukowego i sosnowego),
W77-04821 1010 5D

Modified Water Extractor Recovers Bark Fines, Reduces Clarifier Upsets.
W77-04823 1010 5D

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W77-04824 1010 5D

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W77-04830 1010 5D

Liquid-Solids Separation Using an Inclined Plate Clarifier,
W77-04832 1010 5D

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

Wet Combustion of Organics,
W77-04957 1010 5D

Preferential Removal of Ammonia and Phosphates,
W77-04959 1010 5D

Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

Treating Foul Refinery Waste Waters with Absorber Gas,
W77-04961 1010 5D

Membrane Separation Equipment,
W77-04963 1010 3A

Sewage Treatment Plant,
W77-04964 1010 5D

Sewage Treatment Apparatus,
W77-04965 1010 5D

Device for Extracting Liquid from Sludge,
W77-04968 1010 5D

Improved Waste-Treatment Systems Design Based on the Natural Thermal Environment,
W77-05004 1010 5D

Ocean Dumping--Part 2.
W77-05037 1010 5E

Paving and Roofing Materials (Tars and Asphalt), Point Source Category Proposed Pretreatment Standards for Existing Sources,
W77-05062 1010 5G

Measurement and Forms of Nitrogen and Phosphorous,
W77-05169 1011 5A

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

Wetted Area, Slime Thickness and Liquid Phase Mass Transfer in Packed Bed Biological Film Reactors,
W77-05315 1011 5D

Plant Upgraded with Rotating Biological Surface System,
W77-05316 1011 5D

Outfall has Unusual Administration, Regional Plan is Serving New Jersey,
W77-05319 1011 5E

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W77-05322 1011 5D

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W77-05324 1011 5D

Sorption of Poliovirus From Aqueous Solution with Active Carbon,
W77-05325 1011 5D

Aerobic Biological Treatment of a Colloidal Wastewater,
W77-05326 1011 5D

Development of Mathematical Models for the Water Quality Management of the Pearl River, Jackson, Mississippi,
W77-05327 1011 5D

A Mathematical Model for Predicting Water Demand, Waste Water Disposal and Cost of Water and Waste Water Treatment Systems in Developing Countries,
W77-05328 1011 5D

Engineering, Sanitary and Municipal Modeling, Identification and Control of a Dynamic and Stochastic Chemical Biological Process,
W77-05330 1011 5D

Treatment of Leachates from Sanitary Landfills,
W77-05331 1011 5D

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

Biochemical Reactor Analysis,
W77-05334 1011 5D

Enzyme Process Design for Water Treatment,
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Purification of Resin-Forming Effluent Waters for Bakelite Manufacture--Involves Condensation to Useful Glue Resin with Ammonia Then Sodium Hydroxide,
W77-05497 1011 5D

Decomposition of Surface Active Substances by Means of Activated Sludge Method (Rozklad wybranych niejonowych substancji powierzchniowo czynnych metoda osadu czynnego),
W77-05498 1011 5D

Purifying Waste Liquor-From, E.G., Sodium Carbonate Production, Ammonia Regeneration, Brine Purification, Etc.
W77-05499 1011 5D

Dairy Effluent Electroflotation Purifier-Having Electrode Units in Alternative Rows with Gap Control,
W77-05500 1011 5D

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W77-05503 1011 5D

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W77-05506 1011 5D

Electrolytic Purification of Industrial Effluents-for Removal of Heavy Metals, Oil, Etc.,
W77-05509 1011 5D

Determination of Phenols at Residual Levels by Ultraviolet Electronic Spectra (Determinarea fenolilor din apele reziduale cu ajutorul spectrelor electronice in ultraviolet),
W77-05510 1011 5A

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W77-05511 1011 5D

Industrial Water and Air Pollution Control,
W77-05512 1011 5D

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W77-05513 1011 5D

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W77-05514 1011 5D

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W77-05515 1011 5D

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W77-05522 1011 5D

Asphaltic Concrete Sludge Drying Beds,
W77-05525 1011 5D

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Freezer, Vacuum, Oven Sewage Treatment System,
W77-05653 1012 5D

Method and System for Purifying Liquid,
W77-05655 1012 5D

Method of Treating Wastewater with Flowable Flocculants,
W77-05656 1012 5D

Recovery of Chromates by Membrane,
W77-05661 1012 5D

Treatment of Waste Rolling Oil,
W77-05663 1012 5D

Method and Apparatus for Clarifying Contaminated Liquids,
W77-05664 1012 5D

Effluent Waste Treatment Process and Apparatus,
W77-05665 1012 5D

Purification of Waste Waters from the Manufacture of Rag Pulp-Containing Paper (Ochistka stochnykh vod ot proizvodstva bumagi s ispol' zovaniem tryapichnoi polumassy),
W77-05683 1012 5D

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W77-05689 1012 5D

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W77-05693 1012 5D

Biological Oxidation of Concentrated High-Yield Bisulfite Spent Liquor,
W77-05696 1012 5D

New Electroflocculating Process for Treating Industrial Waste Waters (Nuovo procedimento per il trattamento delle acque residue industriali con elettrofloculazione),
W77-05697 1012 5D

Purification of Waste Waters from Wet Barking (Rening av avloppsvatten fran vatbarkning),
W77-05698 1012 5D

Removal of Color and Organic Matter from Kraft Process Bleach Effluents,
W77-05702 1012 5D

Method of Purifying the Waste Water of Paper Mills,
W77-05703 1012 5D

Purification of Waste Water from Sulfate Pulp Bleaching Plants,
W77-05704 1012 5D

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W77-05713 1012 5D

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W77-05716 1012 5D

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W77-05723 1012 5D

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W77-05726 1012 5D

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W77-05929 1012 5D

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W77-05940 1012 3A

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W77-05980 1012 5D

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W77-05981 1012 5D

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W77-05987 1012 5D

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W77-06104 1013 5D

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Method and Apparatus for Aerobic Sewage Treatment,
W77-06108 1013 5D

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W77-06110 1013 5D

Process of Treating Gelatinous Sludge Agglomerations,
W77-06111 1013 5D

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W77-06113 1013 5D

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W77-06114 1013 5D

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W77-06116 1013 5D

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W77-06118 1013 5D

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W77-06119 1013 5D

Filtration Research in UK Universities,
W77-06120 1013 5D

Residual Saturation of Dewatered Filter Cakes,
W77-06121 1013 5D

Uses and Cultivation of Seaweeds,
W77-06122 1013 5D

Filtration with Granular Beds,
W77-06123 1013 5D

Purification Plants of the Carrousel Type for the Purification of Communal, Trade and Industrial Waste Water (Klaeranlagen vom Typ Carrousel fuer die Reinigung Kommunaler, Gewerblicher und Industrieller Abwaesser),
W77-06124 1013 5D

The Electroflotation of Organic Wastes,
W77-06126 1013 5D

Adsorption, Coagulation and Filtration make a Useful Treatment Combination - Part 1,
W77-06127 1013 5D

Disinfection of Viruses in Sewage by Ozone,
W77-06128 1013 5D

Additional Studies on the use of Cracking Catalysts in Conjunction with Activated Sludge Waste Water Treating,
W77-06129 1013 5D

The First Fluosolids Incinerator Commissioned in the U.K.
W77-06130 1013 5D

Sludge Treatment Specialists.
W77-06132 1013 5D

Ozone Disinfection of Secondary Effluents,
W77-06133 1013 5D

New Screenings Removal and Dewatering Apparatus.
W77-06135 1013 5D

Georgia Plant is a Peach,
W77-06136 1013 5D

Sludge, Garbage May Fuel California Sewage Plant,
W77-06138 1013 5D

New Methods Treat Sewage Plant Discharges.
W77-06139 1013 5D

Advanced Sewage Treatment Plant Operational.
W77-06140 1013 5D

Ozonation of Reclaimed Water.
W77-06141 1013 5D

A Refresher on Sodium Hypochlorite.
W77-06142 1013 5D

Water Plant Plans Zero Discharge,
W77-06144 1013 5D

Fresno Adopts 'Outstanding' Management Plan,
W77-06148 1013 5D

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

New System Provides for Growth,
W77-06152 1013 5D

Sludge in a State of Purity,
W77-06154 1013 5D

Study of the Oxygen Demand in Biological Waste Water Treatment and Incineration Processes (Valutazione dell'02 consumato nei processi biologici di trattamento acque nei processai di incenerimento),
W77-06155 1013 5D

Virus-Coal Sorption Interaction,
W77-06162 1013 5D

Phosphorus Uptake by Biological Slimes,
W77-06163 1013 5D

The Kinetics of Biooxidation in a Continuous Activated Sludge Process (Kinetyka procesu ciaglego bioutleniania osadem czynnym),
W77-06166 1013 5D

Effects of Dosing Rates on Trickling Filter Performance,
W77-06167 1013 5D

An Examination of the Validity of the Mathematical Formulae for Expressing the Rate of Biochemical Oxidation of Sewage,
W77-06170 1013 5D

Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

How Much Pollution Control for What Price,
W77-06179 1013 5G

Evaluation of Gauze Pad Method to Recover Viruses from Water,
W77-06183 1013 5A

Purification of Waste Sulphuric Acid by Dialysis on Weakly-Basic Anion-Exchange Membranes (Dialityczne oczyszczanie odpawdow stezonego kwasu siarkowego przy pomocy slabozasadowych membran anionowymiennych),
W77-06186 1013 5D

Membrane Scaling Prevention in an Electrodialysis Desalination of Brackish Water (Zapobienganie powstawaniu kamienia membranowego podczas elektrodializy wod slonawych),
W77-06187 1013 3A

Effect of pH on Some Water Treatment Unit Processes (Wplyw odczynu na niektore procesy oczyszczania wody),
W77-06189 1013 5D

Removal of Lead in Water Treatment (Badania nad usuwaniem olowiu z wod),
W77-06190 1013 5D

Polyelectrolytes Filter Bed Coatings (Impregnacja zloz filtracyjnych polielektrolitami),
W77-06192 1013 5D

Design Principles of Activated Carbon-Filled Adsorption Columns for Waste Water Treatment (Zasady projektowania kolumn sorpcyjnych z weglem aktywnym do oczyszania sciekow),
W77-06194 1013 5D

Processing of Combined Domestic Bath and Laundry Waste Waters for Reuse as Commode Flushing Water,
W77-06196 1013 5D

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W77-06198 1013 5D

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W77-06207 1013 5D

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W77-06208 1013 5D

Preliminary Results of Parallel Test with Fine Bubble Aeration and Oxygenation by the Lindox Process,
W77-06209 1013 5D

Silver Recovery from Photographic Wash Waters by Ion Exchange,
W77-06212 1013 5D

Polymeric Adsorbents for Treatment of Waste Effluents,
W77-06213 1013 5D

Accumulation of Reserve Polysaccharide in Activated Sludges Treating Carbohydrate Wastes,
W77-06214 1013 5D

Waste Treatment System Cuts Water Use by 2/3.
W77-06217 1013 5D

Chemical Oxidation of Cyanide Species by Ozone with Irradiation from Ultraviolet Light,
W77-06219 1013 5D

The Treatment of Waste Waters with Peat Moss,
W77-06220 1013 5D

The Treatment of Waste Emulsified Oils by Ultrafiltration,
W77-06221 1013 5D

Designing Parallel-Plates Separators,
W77-06222 1013 5D

Bio-Treatment of Effluents with BOD Below 100 MG/L,
W77-06223 1013 5D

Treatment of Contaminated Condensates,
W77-06224 1013 5D

Sludge Dewatering in Textile Plants,
W77-06226 1013 5D

The Removal of Acid Dye from Effluent Using Natural Adsorbents--I,
W77-06227 1013 5D

The Removal of Acid Dye from Effluent Using Natural Absorbents-II,
W77-06228 1013 5D

A Potential Organic Disinfectant for Water Purification,
W77-06250 1013 5D

Energy Requirements for Wastewater Treatment. Part 2,
W77-06252 1013 5D

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Method and Apparatus,
W77-06446 1013 5D

Removable Gas Diffuser and Apparatus Therefor,
W77-06447 1013 5D

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

Cyclone with Plural Peripheral Discharge Tubes,
W77-06460 1013 5D

Anaerobic Digestion and Membrane Separation for the Treatment of Domestic Sewage,
W77-06631 1014 5D

Adjustment Costs and Optimal Waste Treatment,
W77-06699 1014 5D

The Removal of Organic Matter from Water Supplies by Ion Exchange,
W77-06760 1014 5F

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Canwel Can Do,
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W77-06987 1014 5D

The Use of Oxygen to Treat Sewage in a Rising Main,
W77-06996 1014 5D

Electron-Beam Irradiation of Waste Products--e.g., For Sterilization of Sewage Sludge and Waste Industrial Products.
W77-06997 1014 5D

Sludge Separator.
W77-06998 1014 5D

Oxidation and Ozonation Chamber,
W77-06999 1014 5D

Sewage Aeration Impeller-With Automatic De-Icing and Anti-Clogging System,
W77-07001 1014 5D

Method of Waste Treatment and Algae Recovery,
W77-07003 1014 5D

Renovation of Waste Water,
W77-07004 1014 5D

Waste Treatment Apparatus,
W77-07005 1014 5D

Process for the Treatment of Waste Water by Heterogeneous Photosensitized Oxidation,
W77-07006 1014 5D

Method of Applying Ozone and Sonic Energy to Sterilize and Oxidize Waste Water,
W77-07007 1014 5D

Apparatus and Process for Removing Ammonia Nitrogen from Waste Water,
W77-07008 1014 5D

Expansion Comes Quickly to AWT Plant,
W77-07009 1014 5D

The Plight and Promise of On-Site Waste Water Treatment,
W77-07010 1014 5D

Treatment of Sewage by Electrons and Gammas,
W77-07012 1014 5D

New Visibility for On-Site Waste Treatment Systems,
W77-07013 1014 5D

UNOX System for Waste Water Treatment,
W77-07014 1014 5D

Design and Control of Secondary Settlement Tanks,
W77-07015 1014 5D

Fast-Tracking Cuts Costs 16% on Advanced Waste Water Plant.
W77-07016 1014 5D

Waste Water System Uses Microwaves,
W77-07019 1014 5D

Municipal Waste Water Treatment as an Industrial Operation,
W77-07025 1014 5D

Plug-In Concept for Pilot Sewage Treatment Plant,
W77-07026 1014 5D

Fail-Safe Waste Treatment System,
W77-07027 1014 5D

Plastic Spheres for Waste Water Treatment.
W77-07028 1014 5D

Screenings Dewatering Press.
W77-07029 1014 5D

Sludge Dewatering on Alaska's North Slope,
W77-07030 1014 5D

Single P/C Unit Removal of Nutrients from Combined Sewer Overflows,
W77-07031 1014 5D

Influence of Phosphorus Removal on Solids Budget,
W77-07032 1014 5D

The Use of Polymers for Improving Chemical Sludge Dewatering on Sand Beds,
W77-07033 1014 5D

Treatment of Combined Sewer Overflows Via Thin Film Chemistry,
W77-07034 1014 5D

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

Backwashing of Granular Filters,
W77-07037 1014 5D

Evaluation of In-Line and Side-Line Flow Equalization Systems,
W77-07041 1014 5D

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W77-07042 1014 5D

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W77-07043 1014 5D

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W77-07052 1014 5G

Elimination of Anaerobic Digester Supernatant,
W77-07059 1014 5D

Design Criteria for Waste Water Aerator Drives,
W77-07060 1014 5D

Purifying Water,
W77-07061 1014 5D

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W77-07062 1014 5D

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W77-07063 1014 5D

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W77-07064 1014 5D

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W77-07080 1014 5D

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Process Technological Background Regarding New Protective Regulations of Water Bodies-Results of Nitrification and Phosphorus Elimination Experiments in Zurich and Bern. III. Filtration by Flocculation for the Elimination of Phosphorus from Communal Waste Water (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutzanforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. III. Flockungsfiltration zur Elimination von Phosphor aus Kommunalem Abwasser),
W77-07082 1014 5D

Trends in Sludge Treatment and Disposal Practices in the United States,
W77-07083 1014 5D

Effect of Water Work's Sludge on Waste Water Treatment,
W77-07085 1014 5D

Renovated Water from Municipal Sewage Treatment Plants,
W77-07086 1014 5D

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

Sludge Dewatering Pilot Plant Design. Part 2,
W77-07088 1014 5D

Method of Treating Waste Water with Jet Nozzles,
W77-07090 1014 5D

Waste Treatment Process,
W77-07091 1014 5D

Clarifier with Overflow Scum Removal,
W77-07092 1014 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-07093 1014 5D

Ozone Oxidation of Waste Water,
W77-07094 1014 5D

Factors Influencing the Dewatering Characteristics of Sludge,
W77-07097 1014 5D

Concentration and Determination of Trace Organic Pollutants in Water,
W77-07098 1014 5A

Recycling of Aluminum Used for Phosphate Removal in Domestic Waste Water Treatment,
W77-07099 1014 5D

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Nitrate in Ground Water and Its Relation to Fertilization, (In German),
W77-07112 1015 5B

Phenol-Selective, Highly Resistant Ro-Membranes Made from PVA for the Purification of Toxic Industrial Wastes,
W77-07206 1015 5D

Large-Scale Reverse Osmosis Processing of Metal Finishing Rinse Waters,
W77-07207 1015 5D

Calcium Carbonate in the Revomal of Iron and Lead from Dilute Waste Water,
W77-07208 1015 5D

Toxic Waste Disposal,
W77-07209 1015 5G

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Electrolytic Treatment of Chromate and Cyanide Wastes with Packed Bipolar Cell, (In Japanese),
W77-07211 1015 5D

Ultrafiltration Oil Reclamation Process,
W77-07212 1015 5D

Techniques for Purifying Oily Waste Water,
W77-07213 1015 5D

Inline Sensor Tightens Control on Sludge Consistency to Within 1.4-1.5% Solids,
W77-07214 1015 5D

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

An Ozone Reactor for Color Removal from Pulp Bleachery Wastes,
W77-07216 1015 5D

Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W77-07217 1015 5D

Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

Fifty Million Dollars Is a Lot of Fish,
W77-07219 1015 5D

Dyehouse Water Treatment with Catalytic Oxidation.
W77-07221 1015 5D

Purification of Industrial Waste Water Containing Organic Impurities--By Contacting with Adsorbent Polymer Material in Solvated Gel State.
W77-07222 1015 5D

Treating Effluent Containing Ionic Compounds Preferably Dyes--By Adding Salt Generator of Opposite Charge to Effluent Ion Then Ultra-Filtering.
W77-07223 1015 5D

Two New Methods of Sludge Removal,
W77-07224 1015 5D

A Mini-Pollution Tannery,
W77-07225 1015 5D

Purifying Waste Liquor Containing Sulphide, Sulphite and Thiosulphate-Alkaline Oxidation Followed by Acid Oxidation, Using Oxygen.
W77-07226 1015 5D

Evaporation and Thermal Oxidation of Liquid Effluents--By Burning with Flame in Combustion Chamber.
W77-07227 1015 5D

How the Army Does A Bang-up Job of Treating Effluents,
W77-07247 1015 5D

Economic Aspects of Pollution Abatement, Part 1,
W77-07260 1015 6E

Ozonation in a Better Perspective,
W77-07293 1015 5D

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W77-07333 1015 5D

Review of Treatment Technology in the Fruit and Vegetable Processing Industry in Canada.
W77-07341 1015 5D

Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

Network Approach to Optimal Wastewater Treatment System Design,
W77-07531 1015 5D

A Bacteriological Investigation of Meat Packing Plant Effluents in the Province of Alberta with Particular Emphasis on Salmonella,
W77-07560 1015 5D

Salmonella in Poultry Packing Plant Effluents,
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W77-07734 1016 5D

Utilization of Fly Ash in Polishing Oxidation Pond Effluents,
W77-07815 1016 5D

High Gradient Magnetic Separation of Food Processing Wastewater,
W77-07852 1016 5D

Factors Affecting Nitrification,
W77-07854 1016 5D

Studies on Adsorption with Activated Carbon,
W77-07855 1016 5D

Biological Phosphate Elimination of Preliminarily Cleaned Communal Waste Water by Use of Iron Bacteria (Biologische Entphosphatung vorgereinigten kommunalen Abwassers unter Mitwirkung von Eisenbakterian),
W77-07856 1016 5D

Process Stability of Activity Sludge Processes,
W77-07857 1016 5D

Concentration of Bacteria in Water Using the Ultrafiltration Method, (In French),
W77-07860 1016 5D

Nitrification in Soil Treated with Domestic and Industrial Sewage Sluge,
W77-07862 1016 5E

German Pollution Control,
W77-07863 1016 5G

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Silk from Sow's Ears.
W77-07867 1016 5D

Save Sludge Handling Costs by Level Control,
W77-07868 1016 5D

'Hydig'-One Example of Controlled Sludge Use,
W77-07871 1016 5E

Waste Water Plants Use Less Instrumentation than Related Industries,
W77-07872 1016 5D

Survey Predicts 33 Percent Municipal Compliance with 1977 Deadline,
W77-07877 1016 5G

Marine Sanitation Method and Device,
W77-07891 1016 5D

Coal Distn. Waste Liquor Purificn. to Remove Phenols, Ammonia- and Hydrogen Sulphide by 2-Stage Solvent Extn. and Distn.,
W77-07892 1016 5D

Oxygen Addn. Regulation in Water and Sewage Purificn.--Using Ejectors to Secure Intimate Contact with Activated Sludge,
W77-07893 1016 5D

Flotation Treatment of Waste Water and Sewage-Using Gas Contg. Oxygen in Deep Pit to Float the Particles,
W77-07894 1016 5D

Macerator-Sterilizer Sewage Treatment System,
W77-07895 1016 5D

Sewage Treatment Apparatus,
W77-07896 1016 5D

Control of Aerobic Biological Growth in Activated Carbon Waste Treatment,
W77-07897 1016 5D

Experiences in Evaluating and Specifying Aeration Equipment,
W77-07899 1016 5D

Intermittent Sand Filtration for Upgrading Waste Stabilization Pond Effluents,
W77-07900 1016 5D

Bristol Regional Sewage Treatment Works--Past, Present and Future,
W77-07901 1016 5D

Evaluation of Alternate Solids Handling Methods for Advanced Waste Treatment,
W77-07902 1016 5D

Survey of Anaerobic Digestion Supernatant Treatment Alternatives,
W77-07903 1016 5D

Process Could Save Millions of Pounds on Sewage Treatment Plants,
W77-07904 1016 5D

Sludge Dewatering by Belt Filter.
W77-07905 1016 5D

Hygenic Assessment of Tertiary Adsorption Treatment of Domestic Sewage and Industrial Effluents (Gigienicheskaya Otsenka Tretichnoyi Adsorbtsionnoyi Ochistki Bytovykh I Promyshlennikh Stochnykh Vod),
W77-07906 1016 5D

Two-Stage Filtration of Secondary Effluent,
W77-07907 1016 5D

A Second Look at Water Reuse,
W77-07908 1016 5D

Automatic Analysis Contributes to Waste Water Treatment Efficiency,
W77-07909 1016 5A

Air V. Oxygen in Dorset,
W77-07910 1016 5D

Poly Aluminum Chloride in Sludge Treatment,
W77-07912 1016 5D

Multi-Stage Filter Press.
W77-07914 1016 5D

Phosphorus is Removed at Low Cost,
W77-07915 1016 5D

Biochemical and Physical-Chemical Treatment of Weak Municipal Waste Water,
W77-07916 1016 5D

In-House Treatment.
W77-07917 1016 5D

AWT Plant Meets Tough Demands,
W77-07918 1016 5D

What's Up with Oxygen,
W77-07919 1016 5D

Joint Municipal Corporation Waste Water Treatment,
W77-07920 1016 5D

Controlling Sludge Bulking.
W77-07921 1016 5D

Physico-Chemical Treatment of Sewage and the Coleshill Project,
W77-07922 1016 5D

Continuous Thickening of Biological Sludges, and the Influence of Stability,
W77-07923 1016 5D

The Effect of Time Delay and Growth Rate Inhibition in the Bacterial Treatment of Waste Water,
W77-07924 1016 5D

Relationship Between BOD5 and Fats, Oils and Grease,
W77-07925 1016 5G

Effects of Polyelectrolytes and Clay Colloids on Carbon Adsorption,
W77-07926 1016 5D

The Activated Sludge Process Without Preliminary Purification. Results of Pilot Experiments in the Purification Plant Karlsruhe (Das Belebungsverfahren ohne Vorreinigung. Ergebnisse der Versuche im halbtechnischen Massstab im Klaerwerk Karlsruhe),
W77-07927 1016 5D

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

Cost of High Quality Waste Water Treatment for Reuse,
W77-07930 1016 5D

Industry Monitors County Storm Sewer Water,
W77-07933 1016 5D

Less-Costly Activated Carbon for Sewage Treatment.
W77-07934 1016 5D

State Park Gets Good Treatment, Effluents Will Be Used for Irrigation to Reduce Extensive Requirements,
W77-07936 1016 5D

R and D Project Provides Phys/Chem Data, Foxborough (Mass) State Hospital Plant Can Produce 'Superior Effluent Quality',
W77-07937 1016 5D

Water and Waste Water Engineering for Low Income Communities in Developing Countries,
W77-07939 1016 5G

Stabilization Lagoons Including Experience in Brazil,
W77-07940 1016 5D

Waste Water Renovation by Sewage Ultrafiltration,
W77-07941 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

Bacterial Populations and End Products During Anaerobic SLudge Fermentation of Glucose,
W77-07944 1016 5D

Sewage Sludge Disposal: A Sticky Problem with No Fail-Safe Answer,
W77-07948 1016 5E

Some Reflections of a Sewage Works Manager,
W77-07952 1016 5D

Process Technological Background Regarding New Protective Regulations for Water Bodies-Results of Experiments on Nitrification and Phosphorus Elimination in Zurich and Bern. II. Process Technological Background of Nitrification in Activated Sludge Plants (Verfahrenstechnische Unterlagen im Hinblick auf die neuen Gewaesserschutz-Anforderungen-Ergebnisse der Versuche ueber die Nitrifikation und Phosphorelimination in Zuerich und Bern. II. Verfahrenstechnische Grundlagen der Nitrifikation in Belebtschlammanlagen),
W77-07953 1016 5D

Method of Filtering Oil from Liquids,
W77-08011 1016 5G

Method of Filtering Liquids Containing Dissolved Carbon Dioxide,
W77-08013 1016 5D

Method of Separation of Fission and Corrosion Products and of Corresponding Isotopes from Liquid Waste,
W77-08020 1016 5D

Process for Eliminating Reactive Chlorinated Organic Compounds from Aqueous Solutions,
W77-08021 1016 5D

Sewage Sludge Treatment System,
W77-08030 1016 5D

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

Simplified Optimization of Activated Sludge Process,
W77-08036 1016 5D

Best Practicable Waste Treatment Screening Model,
W77-08037 1016 5D

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Method for Improving the Quality of Contaminated Waste Water,
W77-08090 1016 5D

Water Waste Treatment,
W77-08092 1016 5D

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-08099 1016 5D

Waste-Water Process,
W77-08100 1016 5D

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

The Role of Protozoa in Biological Purification of Oil Industry Sewage, (In Russian),
W77-08254 1017 5D

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

The Effect of Different Flocculants on the Elimination of Trace Elements and Polycylic Hydrocarbons in the Water Purification Process, (In German),
W77-08256 1017 5D

Kraft Mill Recovery System,
W77-08258 1017 5D

Precoat for Permeability Separation Systems,
W77-08259 1017 5D

Liquid Waste Treatment Apparatus,
W77-08263 1017 5D

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Sources, Characteristics and Treatment and Disposal of Industrial Wastes Containing Hexachlorobenzene,
W77-08265 1017 5D

Removing Explosives from Wastewater,
W77-08266 1017 5D

Ozone Effect of Synthetic Rubber Waste Treatment,
W77-08267 1017 5D

Waste Impoundment Efficiency at Sugar Mill,
W77-08268 1017 5D

Bacteriological Investigation of Alberta Meat-Packing Plant Wastes with Emphasis on Salmonella Isolation,
W77-08269 1017 5D

Occupational Characteristics and Biological Kinetic Constants of Extended Aeration Process,
W77-08270 1017 5D

Closed-Loop System Separates Oil from Prewash Overflow,
W77-08271 1017 5D

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

Performance of Dual-Media Filters--I,
W77-08273 1017 5D

Performance of Dual-Media Filters--II,
W77-08274 1017 5D

Treatment of Aqueous Condensates and Effluents from Coking Plants--With Alkali Salts of Weak Acids, to Expel Ammonia.
W77-08275 1017 5D

Is pH Pretreatment Necessary,
W77-08276 1017 5D

Purifying Biological Effluent Rich in Carbohydrates or Protein--By Anaerobic Fermentation Separation, Aerobic Treatment and Then Separation.
W77-08277 1017 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-08278 1017 5D

Effect of Acclimation to Lime-Sulfide Effluent from Unhairing Cattlehides on the Composition of Activated Sludge,
W77-08279 1017 5D

Split-Stream Chemical Treatment (A Patented Process by Chemlan Company, Inc.) of Tanning Industry Waste Water,
W77-08280 1017 5D

Bacterial Growth Kinetics in the Completely Mixed Activated Sludge Treatment of Fellmongery Effluent,
W77-08281 1017 5D

Air Flotation of Oily Waste Waters with Organic Coagulants,
W77-08282 1017 5D

Taking Acres Out of Pollution-Control Plans,
W77-08283 1017 5D

Chelating Agent Analysis by High Speed Liquid Chromatography,
W77-08286 1017 5A

Investigation of the Effectiveness of Polymers in the Treatment of Nirocellulose-Manufacturing Wastewater,
W77-08338 1017 5D

Forward Osmosis Extractors,
W77-08340 1017 3A

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

The 1972 Water Pollution Control Act: Unforeseen Implications for Land Use Planning,
W77-08373 1017 5G

Full Scale Operation of Plug Flow Activated Sludge Systems,
W77-08451 1017 5D

Availability of Aluminum Phosphate Complexes to a Green Alga in Various Culture Media,
W77-08496 1017 5D

The Solubility of Particulate Phosphorus in the Effluent From Alum Treatment of Wastewater and Phosphorus Solutions,
W77-08500 1017 5D

Investigation of Coagulation - Precipitation and Ultrafiltration for the Regeneration of Brines in the Cucumber Pickle Industry,
W77-08511 1017 5D

Health Considerations in Use of Tertiary Effluents,
W77-08513 1017 5F

State of the Art in Sewage Treatment Plant Control,
W77-08515 1017 5D

Clay Adsorption Treatment of Non-Ionic Surfactants in Waste Water,
W77-08522 1017 5D

Reverse Osmosis on Secondary Sewage Effluent: The Effect of Recovery,
W77-08523 1017 5D

Treatment of High Strength Acidic Waste Water with a Completely Mixed Anaerobic Filter,
W77-08524 1017 5D

Oxygen Aeration at Newton Creek,
W77-08526 1017 5D

Aerobic Digestion of Waste Activated Sludge at Low Temperatures,
W77-08527 1017 5D

Dewatering: A New Method Bows,
W77-08528 1017 5D

Enzymatic Treatment of Primary Municipal Sludge with Trichoderma Viride Cellulase,
W77-08529 1017 5D

Aerobic Digestion of Sludges Precipitated from Waste Water by Lime Addition,
W77-08530 1017 5D

Physicochemical Treatment of an Australian Municipal Waste Water,
W77-08531 1017 5D

Biological Treatment Kinetics of Landfill Leachate,
W77-08532 1017 5D

Progress in MHI's Integrated Techniques for Environmental Protection,
W77-08533 1017 5D

The Sanitary Landfill Leachate Control Plant in Kobe.
W77-08534 1017 5D

Characterizing Sludge for Centrifugal Dewatering,
W77-08535 1017 5D

Ozone and Chlorine in Waste Water Disinfection,
W77-08536 1017 5D

Unstratified-Bed Filtration of Waste Water,
W77-08537 1017 5D

Chlorobiphenyls and PCB's: Formation During Chlorination,
W77-08538 1017 5A

Improved Galvanic Dissolved Oxygen Sensor for Activated Sludge,
W77-08539 1017 5A

Effects of High Organic Loading on Mixed Photosynthetic Waste Water Treatment,
W77-08540 1017 5D

What Lies Ahead for PAC,
W77-08541 1017 5D

Dewatering Machines (Entwasserungsmachinen),
W77-08544 1017 5D

Use of Oxygen in Activated Sludge Plants (Utilizzazione dell'ossigeno allo stato puro negli impianti a fanghi attivi),
W77-08545 1017 5D

Determination of BOD After Freezing Water Samples (Bestimmung des BSB nach Einfrierung der Wasserproben),
W77-08546 1017 5A

An Estimation of the Efficiency of a Waste Water Treatment Plant, as Measured by Several Parameters Including Lipid Biodegradation (Essai d'evaluation de l'efficacite d'une station d'epuration a l'aide de plusieurs parametres dont la biodegradation des lipides),
W77-08548 1017 5D

Aerobic Treatment of Liquid Wastes--With Oxygen Concentration Measured and Used to Control Pump Speed Used to Force Liquid Through Venturis.
W77-08557 1017 5D

Mechanical Surface Aerator for Effluent Purification--Has the Liquid Scooped by the Curved Elements and Ejected into the Air Above,
W77-08558 1017 5D

Sludge Collector and Light Liquid, Separator--from Sewage with Two Tanks in Single Housing and Cover.
W77-08560 1017 5D

Cleaning of Sewage Sludge System.
W77-08561 1017 5D

Screening Apparatus for Removal of Solids--from Sewage with Rotating Screen and Vertical Lift for Residues.
W77-08562 1017 5D

BOC Blows Bubbles in Dirty Bath Water,
W77-08564 1017 5D

Michigan Treatment Plant Achieves Zero Discharge, Irrigates Cropland,
W77-08565 1017 5D

High Capacity Waste Water Treatment System,
W77-08566 1017 5D

Trends in Small Sewage Treatment Plants,
W77-08569 1017 5D

S. W.'s Sludge Incineration scheme,
W77-08570 1017 5E

Chlorine Combining with Sewage,
W77-08571 1017 5D

Everything from a Pipe Filter to a Turnkey Project,
W77-08572 1017 5D

Sewage Works is Above Ground Level,
W77-08574 1017 5D

Oxygen System Activated Sludge Process.
W77-08575 1017 5D

Travelling Grate-Type Filtration System Uses Pulverized Coal to Lower BOD of Wastewater.
W77-08577 1017 5D

Prospects Strong for Waste Water Oxygenation,
W77-08578 1017 5D

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Sewage Sludge Disinfected by Electron-Beam Bombardment.
W77-08580 1017 5D

Fluid Bed for Sewage Sludge Burn Up,
W77-08582 1017 5E

1.17 Million (Pound) Works and Sewage Scheme Completed at Market Rasen.
W77-08584 1017 5D

Automatic Control of Whitlingham Sewage Treatment Works Norwich,
W77-08585 1017 5D

Filters and Sludge Drying Beds,
W77-08586 1017 5D

Moduflex Sewage Treatment Plants Provide the Answer to Growth,
W77-08588 1017 5D

Sodium Bicarbonate Can Settle Many Waste Water Problem Upsets,
W77-08589 1017 5D

ICI Effluent System to be Used in Essex.
W77-08590 1017 5D

Removing Soluble Metals from Waste Water,
W77-08591 1017 5D

The Trials and Tribulations of Treatment Works in Lower Trent.
W77-08593 1017 5D

Horsham's Sewage Works,
W77-08595 1017 5D

Pre-Treatment in the Sewer,
W77-08596 1017 5D

Plant Capacity to Increase,
W77-08597 1017 5D

Perforated, Vitrified Clay Pipe Used in Peoria Facilities,
W77-08598 1017 8G

Oxygen Injection for Bath's Sewers,
W77-08599 1017 5D

Higher Gas Yields and Reduced Retention Times Obtained from Anaerobic Digester,
W77-08600 1017 5D

High Speed Liquid Chromatographic Analysis of Cobalamin Productivity and Distribution in Activated Sewage Sludge Treatment,
W77-08621 1018 5A

Removal of Fluorine from Waste Waters. III. Fundamental Tests with Chemical Reagents (Haisuichu no fusso jokyo nikansuru kenkyu. III. Shiyaku kei niyoru kisoshiken),
W77-08626 1018 5D

What's Up with Oxygen/2,
W77-08627 1018 5D

Waste Water Aeration System Produces Small Bubbles.
W77-08630 1018 5D

Advanced Waste Treatment Design Protects Lake Alton,
W77-08631 1018 5G

New Plymouth Sewerage Scheme,
W77-08632 1018 5D

Pretreatment Helps Niagara Cut Costs,
W77-08633 1018 5D

Application of Physico-Chemical Treatment as a Method of Achieving Partial Standards on Sewage Effluents Discharged in Estuarial and Coastal Situations,
W77-08634 1018 5D

Sewage Treatment in Developing Countries,
W77-08635 1018 5D

Controlling Sludge Bulking,
W77-08636 1018 5D

The Use of Packed Beds in Water Pollution Control,
W77-08637 1018 5D

Ozone Disinfection of Secondary Effluent,
W77-08638 1018 5D

Sludge Treatment: Problems and Solutions, Part 1,
W77-08640 1018 5D

Composting Destroys Pathogens in Sewage Solids,
W77-08641 1018 5E

Rational Design of Aerobic Digestion Systems,
W77-08643 1018 5D

New Directions in Ion Exchange,
W77-08719 1018 5D

Segregation and Reclamation of Household Wastewater at an Individual Residence,
W77-08806 1018 5D

Dewatering Chemical-Primary Sludges,
W77-08865 1018 5D

Trickling Filter-Activated Sludge Combinations,
W77-08868 1018 5D

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Method of Purifying Waste Water,
W77-08881 1018 5D

Method for Purifying Water of Organic Compounds Not Readily Biodegradable,
W77-08883 1018 5D

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

Polluted Water Purification,
W77-08890 1018 5D

Method for Purifying Waste Waters which Contain Anionic-Type Organic Compounds,
W77-08891 1018 5D

Flocculant Use on Tankers,
W77-08906 1018 5G

Plant Size Influence on Performance in Activated Sludge Systems with Application to Regional Wastewater Treatment Planning,
W77-08928 1018 5D

Enzymatic Treatment of Dairy Effluents,
W77-08937 1018 5D

Real-Time Measurements of Aquatic Nitrogen,
W77-09095 1018 5D

Phosphate and Nitrate Removal by a Grass Filtration System for Final Treatment of Municipal Waste Water,
W77-09100 1018 5D

The Effects of Chili Waste on an Activated Sludge Process,
W77-09141 1019 5D

An Overland Flow - Lagoon Recycle System as a Pretreatment of Poultry Wastes,
W77-09148 1019 5D

Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Mathematical Models for Calculating Performance and Cost of Wastewater Treatment Systems,
W77-09208 1019 5D

To Establish Viable Methods of Maintaining Waste Treatment Facility Efficiencies with Reference to Flow Variations, Volume II.
W77-09214 1019 5D

Design and Performance Criteria for Settling Tanks for the Removal of Physical-Chemical Flocs, Volume II,
W77-09215 1019 5D

Aerobic Digestion of Organic Sludges Containing Inorganic Phosphorus Precipitates, Volume II, Sludges Precipitated by Lime Additions to Raw Sewage,
W77-09216 1019 5D

Upgrading of Sewage Lagoon Effluents,
W77-09218 1019 5D

Land Application of Waste Water, A Bibliography.
W77-09265 1019 5D

Renovation Response to Application Frequencies for Grass Filtration Treatment of Sewage Effluent,
W77-09271 1019 5D

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Binghamton Wastewater Management Study: Comments Appendix.
W77-09383 1019 5G

Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

Binghamton Wastewater Management Study: Public Involvement Appendix.
W77-09388 1019 5G

Water Management Aspects of the Agricultural Utilization of Liquid Manure and Preliminary Expenditure Standards, (In German),
W77-09391 1019 5G

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Chemical Coagulation of Feedlot Runoff,
W77-09404 1019 5D

Activated Carbons for Effluent and Water Treatment,
W77-09409 1019 5D

Treating Waste Water from Beckman Prepn. of Lactam--By Two Stage Concn. Extn. of Residual Lactam, Residue Combustion, Sulfur Dioxide Recovery and Conversion to Sulfuric Acid for Recycling.
W77-09410 1019 5D

Some Considerations on the Recovery and Disposal of Photolab Waste,
W77-09411 1019 5D

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

Treating Distillery Effluent by Recovering Tartar and Organic Matter--Without Increasing the Vol. of Effluent During Purificn.
W77-09414 1019 5D

Anaerobic Digestion of Rum Stillage,
W77-09416 1019 5D

'Not One Drop of Effluent'--Hydrochloric Acid Recovery from Spent Pickle Liquor.
W77-09417 1019 5D

Practical Application of Membrane Techniques of Waste Oil Treatment,
W77-09418 1019 5D

Alternative Methods of Phenol Wastewater Control,
W77-09419 1019 5D

New Trends in Sour Water Stripping,
W77-09421 1019 5D

Continuous Purificn. of Petroleum Refinery Effluents--By Biological Oxidn. and Aeration Between Stages.
W77-09422 1019 5D

Removing Heavy Metals in Textile Waste,
W77-09423 1019 5D

Recovering Polyvinyl Alcohol from Waste Water--By Coagulating with Borate and Inorg. Salt in Presence of Quat. Ammonium CPD to Reduce Water Content of Gel.
W77-09424 1019 5D

Treatment of Wool-Scouring Effluents with Inorganic Chemicals,
W77-09425 1019 5D

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

Pollution of the Interstate and Intrastate Waters of the Upper Mississippi River and Its Tributaries.
W77-09529 1019 5G

Clean Air Equals Dirty Water,
W77-09544 1019 5G

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

Effluent Guidelines and Standards, The Organic Chemicals Manufacturing Point Source Category.
W77-09559 1019 5G

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

Package Aeration Plants.
W77-09588 1019 5D

Optimal Control of an Unsteady State Continuous Activated Sludge System: A Comparison of Digital Computer Simulation Vs Pilot Plant Results,
W77-09597 1019 5D

Powdered Activated Carbon Addition to Biological Reactors,
W77-09599 1019 5D

Metals in the Aqueous Effluents from Municipal Incinerators and an Incinerator-Residue Processing Plant,
W77-09600 1019 5A

Some Effects of Lime Addition on High Solids, Completely Mixed, Activated Sludge Waste Water Treatment,
W77-09601 1020 5D

Evaluation of Process Design Parameters for Phosphorus Removal from Domestic Waste Waters by Chemical Clarification,
W77-09602 1020 5D

Wastewater Treatment by Natural and Artificial Marshes,
W77-09606 1020 5D

Continuous On-Line Monitoring of Total Organic Carbon,
W77-09635 1020 5A

The Renovation and Re-Use of Wastewater,
W77-09686 1020 5D

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

Brown (Co.) Recycles De-inking Water on Tissue-Grade Products,
W77-09732 1020 5D

Application of Reverse Osmosis and Ultrafiltration to the Purification of Pulp and Paper Industry Effluents (Zastosowanie odwroconej osmozy i ultrafiltracji do oczyszczania sciekow z przemyslu celulozowo-papierniczego),
W77-09733 1020 5D

Activated Carbon Adsorption Process for Purification of Textile Waste Waters,
W77-09744 1020 5D

Characterization and Treatment of Textile Dyeing Wastewaters,
W77-09745 1020 5D

Water Reuse in a Paper Reprocessing Plant,
W77-09757 1020 5D

Paper Mill Wastewater Treatment by Microstraining,
W77-09758 1020 5D

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Method and Apparatus for Aerobic Sewage Treatment,
W77-09805 1020 5D

Water Purifying Systems,
W77-09808 1020 5F

Detoxification of Aqueous Waste Streams Containing Cyanide,
W77-09812 1020 5D

Method of Treating Waste Water Containing Surfactant and Heavy Metals,
W77-09815 1020 5D

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Liquid Filtering Apparatus,
W77-09820 1020 5D

Gravitational Separator,
W77-09821 1020 5D

Treatment of Combined Sewer Overflows by High Gradient Magnetic Separation,
W77-09825 1020 5D

Continuous Filter Press.
W77-09826 1020 5D

Gear Motor Solves Plant's Noise Problem.
W77-09827 1020 8C

Spray Irrigation-Waste Water Treatment Facility. North Branch Fire District No. 1, West Dover, Vermont.
W77-09828 1020 5D

Problems and Solutions for Sludge Treatment. Part 2,
W77-09829 1020 5D

Pilot-Scale Investigations into the Use of Random-Pack Plastics Filter Media in the Complete Treatment of Sewage,
W77-09830 1020 5D

Continuous Composting of Organic W W Waste--by Automatic Control of Fermentation Temperature and Humidity of Product and Control of Carbon Dioxide or Oxygen in Waste Gases,
W77-09831 1020 5E

Highly Efficient Aerating System--For An Activated Sludge Effluent Treatment Plant, with Restricted Liquid Circulation in Aerating Tank.
W77-09844 1020 5D

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Diox-

ide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

Recycling of Alum Used for Phosphorus Removal in Domestic Waste Water Treatment,
W77-09847 1020 5D

Nitrogen Control: Design Considerations for Supported Growth Systems,
W77-09848 1020 5D

Low Cost Phosphorus Removal at Reno-Sparks, Nevada,
W77-09849 1020 5D

Organic Matter Removal by Powdered Activated Carbon Added to Activated Sludge,
W77-09850 1020 5D

Nitrification in a Chlorinated Activated Sludge Culture,
W77-09851 1020 5D

Disinfection of Waste Water by Photodynamic Oxidation,
W77-09852 1020 5D

Rapid Sand Filtration for Best Practical Treatment of Domestic Waste Water Stabilization Pond Effluent,
W77-09853 1020 5D

Upgrading a Complex Mix Activated Sludge Wastewater Treatment Plant,
W77-09854 1020 5D

An Approach to Reduce Water Consumption in Neighborhoods Through Reuse,
W77-09855 1020 5D

Hydrogen Peroxide Subdues Waste Water Plant Problems.
W77-09858 1020 5D

Thurrock Test-Bed for ICI Deep Shaft,
W77-09859 1020 5D

Virus and Bacteria Removal from Waste Water by Rapid Infiltration Through Soil,
W77-09860 1020 5D

Nirmali Seed--A Naturally Occurring Coagulant,
W77-09861 1020 5D

Waste Water Treatment by Anaerobic Contact Filter,
W77-09862 1020 5D

Evaluation of Cellulose Acetate Membranes for Reverse Osmosis Separation,
W77-09863 1020 5D

Pasteur v Curie.
W77-09864 1020 5D

Waste Purification Process.
W77-09865 1020 5D

Oxxidation Ditch Gives Low-Cost Secondary Treatment.
W77-09866 1020 5D

Growth of Tulips Treated with Sludge Containing Dewatering Chemicals,
W77-09867 1020 5E

Elemental Composition of Sludge-Fertilized Chrysanthemums,
W77-09868 1020 5E

How Sludge Characteristics Affect Incinerator Design,
W77-09869 1020 5E

Review and Evaluation of Aeration Tank Design Parameters,
W77-09870 1020 5D

Chemically Assisted Biological Oxidation of Wastes and Excess Sludge,
W77-09871 1020 5D

Saffron Walden Opens Its Low Profile Sewage Works,
W77-09872 1020 5D

Biological Fluidized-Bed Treatment for BOD and Nitrogen Removal,
W77-09873 1020 5D

Nationwide Evaluation of Combined Sewer Overflows and Urban Stormwater Discharges. Volume II: Cost Assessment and Impacts,
W77-09874 1020 5D

Two-Stage Settling Improves Sludge Removal Efficiency,
W77-09875 1020 5D

Radiation Treatment of Sewage Sludge--Experience with an Operating Pilot Plant,
W77-09876 1020 5D

Reduction and Recovery: Keys to Energy Self-Sufficiency,
W77-09877 1020 5D

Polymer Addition Improves Waste Water Treatment Process,
W77-09878 1020 5D

Character and Dewatering Properties of Sludges from Water Treatment,
W77-09881 1020 5D

Photodynamic Inactivation of Infectious Agents,
W77-09883 1020 5D

Method for the Determination of the Conditionability of Sewage Sludge (Erarbeitung von Methoden zur Ermittlung der Konditionierbarkeit von Klaerschlaemmen),
W77-09884 1020 5D

Mixer Cuts Solids Up and Time Down for Waste Treatment.
W77-09885 1020 5D

New Wastewater Treatment Systems.
W77-09886 1020 5D

A New Rapid Digestion Process for Sewage Sludge Utilization (Einneues Schnellrotte-Verfahren als Beitrag zur weitergehenden Klaerschlamm-Verwertung),
W77-09887 1020 5D

Study of the Decomposition of Organic Matter by the Respirometric Dilution Method (Untersuchungen ueber das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verduennungsmethode),
W77-09888 1020 5D

Purification Plant Project,
W77-09889 1020 5D

Chemical Treatment of Sewage,
W77-09892 1020 5D

Wastewater Microbiology,
W77-09893 1020 5D

Experiences with the Organic Carbon Analyzer (TOC) by Merz for Routine Monitoring at the BASF Purification Plant (Erfahrungen mit dem TOC-Schnellbestimmer nach Merz in der Routineueberwachung der BASF),
W77-09894 1020 5A

Effluent Treatment Versus Disposal Through Long Sea Outfalls,
W77-09895 1020 5E

Fermentation Technology,
W77-09896 1020 5D

Identification of the Virucidal Agent in Waste Water Sludge,
W77-09897 1020 5A

Lacey, Olympia, Tumwater, and Thurston County Wastewater Treatment,
W77-09898 1020 5D

Microflotation in Effluent Purification (Mikroflotation in der Abwasseraufbereitung),
W77-09899 1020 5D

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

Effect of Sorbed Organics on the Efficiency of Ammonia Removal by Chloramine-Carbon Surface Reactions,
W77-09902 1020 5D

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Aeration: Proper Sizing is Critical,
W77-09905 1020 5D

Zeta Potential Measurement,
W77-09908 1020 5A

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

Gravity Thickening of Water-Treatment-Plant Sludges,
W77-09912 1020 5D

BOD5 Removal from Aerated Lagoon Systems,
W77-09913 1020 5D

The Identification and Adaptive Prediction of Urban Sewer Flows,
W77-09914 1020 5B

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

South Bend's Industrial Surveillance Waste Water Monitoring Program,
W77-09919 1020 5A

Impact of Municipal Water and Sewage Charges on Industry,
W77-09921 1020 5G

Cross Canada Report,
W77-09923 1020 5G

Clarifier for Underground Use,
W77-10081 1020 5D

The Activated Sludge Process, Part 1 - Steady State Behaviour,
W77-10094 1020 5D

Occurrence and Possible Use of Non-Sulphur Purple Bacteria in Effluent Treatment Processes,
W77-10207 1021 5A

Bioflocculation in the Activated Sludge Process,
W77-10208 1021 5D

Disinfection of Municipal Waste Water with Gamma Radiation,
W77-10210 1021 5D

A Review of Biological Phosphorus Removal in the Activated Sludge Process,
W77-10211 1021 5D

Pietermaritzburg's New Sewage Purification Facilities,
W77-10212 1021 5D

The Application of Ultrasonic Liquid Flow Measurement to the Water and Waste Water Control industry,
W77-10219 1021 8C

The KWA Dabeka-Clermont Sewerage Scheme-Planning, Design and Operation,
W77-10220 1021 5D

Fish Water Flats Reclamation Works.
W77-10222 1021 5D

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

Aq. Detergent Effluent Purificn. - By Extn. Using 4 to 20 Carbon Alcohol(s) or Their Esters or Ethers.
W77-10335 1021 5D

The Treatment of Toxic Effluents: Investigations by the BCRA,
W77-10336 1021 5D

Ultrafiltration--The Current State of the Art,
W77-10338 1021 5D

Removing Carboxylic Acids from Aqueous Wastes,
W77-10339 1021 5D

Reducing Photoprocessing Wastes Through Reuse and Recycling,
W77-10340 1021 5D

Recycling Bisulfite Brines Used in Sweet Cherry Processing,
W77-10341 1021 5D

Energy Recovery in Brewery Industry,
W77-10342 1021 5D

Meeting Effluent Discharge Requirements and Water Reuse,
W77-10343 1021 5D

Processing of Factory Waste by Reverse Osmosis,
W77-10344 1021 5D

Treating Metal Forging and Processing Wastewater,
W77-10346 1021 5D

Sodium Bicarbonate Treats Acidic Industrial Wastes,
W77-10347 1021 5D

Metal Finishing Plant Waste Water Purificn.--By Treatment with Copper Sulphate and Sodium Sulphite to Remove Cyanide and Copper Ions.
W77-10348 1021 5D

Some Aspects of High Gradient Magnetic Separation,
W77-10349 1021 5D

Use of a Modified Tenax GC Column Packing for the Direct Gas Chromatographic Analysis of Phenols in Water at the PPM Level,
W77-10350 1021 5A

Refinery Oil/Water Separation Equipment and Its Applications,
W77-10352 1021 5D

Preparation of Stained Alginate Beads for Photosensitized Oxidation of Organic Pollutants,
W77-10353 1021 5D

Industrial Waste Water Purification - Using Brown Coal Semicoke at Elevated Temp. as Adsorbent for Phenolic and Other Organic Impurities,
W77-10354 1021 5D

Experience with the Design and Operation of Small Extended Operation Aeration Wastewater Treatment Plants,
W77-10368 1021 5D

An Evaluation of Water Reuse For Municipal Supply,
W77-10444 1021 5D

New Interceptor Sewer is a 'Prime Time' Project,
W77-10546 1021 5D

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

Extensive Collection System Highlights $30 Million Pollution Control Program.
W77-10588 1021 5D

EPA Indexes Show Costs Rising at Quicker Pace.
W77-10589 1021 5D

Anglian Opens Its Largest Sewage Treatment Works.
W77-10621 1021 5D

Direct Filtration,
W77-10651 1021 5D

Wastewater Management in the Solid Wood and Board Products Industries: A Review,
W77-10690 1021 5D

Foam Breaking--A Key Process in Detoxification of Kraft Mill Effluents by Foam Separation,
W77-10693 1021 5D

Example of Planning for Environmental Protection (Planungsbeispiel zum Umweltschutz).
W77-10694 1021 5D

Apparatus for Treating a Liquid Using a Percolating Layer (Appareil de traitment de liquide a couche de percolation).
W77-10696 1021 5D

Analysis of Pollutants in Effluents of a Pyrolysis Factory (Analiz zagryaznenii stochnykh vod piroliznogo predpiyatiya),
W77-10698 1021 5A

Use of Inorganic Sorbents for the Purification of Kraft Mill Effluents (Primenenie neorganicheskikh sorbentov dlya grubokoi ochistki vod sul'fat-tsellyuloznogo proizvodstva),
W77-10709 1021 5D

Separation of Fibers from Paper Mill Effluent with Continuously Backwashed, Pressurized, Liquid Filter,
W77-10713 1021 5D

Removal of Heavy Metal Ions from Waste Solutions by Contact with Agricultural Byproducts,
W77-10714 1021 5D

Raw Waste Loading Characteristics and Effluent Quality in the Wet Process Hardboard Manufacturing Industry,
W77-10715 1021 5D

Purification of Pulp Mill Effluents by the Activated Sludge Method Using Pure Oxygen (Wyniki badan oczyszczania sciekow celulozowych metoda osadu czynnego z uzyciem czystego tlenu),
W77-10716 1021 5D

Rotating Biological Disc System,
W77-10717 1021 5D

Pulp Mill Condensates Cleaned Biologically with the Aid of Bark (Massafabrikernas kondensatvatten renas biologiskt med hjalp av bark).
W77-10719 1021 5D

Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W77-10721 1021 5D

Some Theoretical and Practical Aspects of Biological Purification of Effluents from Sulfite Pulping (Einige theoretische und praktische Aspekte der biologischen Sulfitzellstoffabwasserreinigung),
W77-10722 1021 5D

Studies on Coagulation Treatment of Spent Water from Pulping Process. (Part 3). Coagulation Mechanism of Lignin (In Japanese),
W77-10761 1021 5D

Dynamic Models and Computer Simulation of Wastewater Treatment Systems,
W77-10814 1022 5D

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Cost-Effective Comparison of Land Application and Advanced Wastewater Treatment,
W77-10928 1022 5D

Process for the Treatment of Acidic Waste Liquid Containing Dissolved Salts,
W77-11003 1022 5D

Method for Preventing Gelation of Thermosetting Resins in Waste Water,
W77-11004 1022 5D

Liquid Treating Apparatus,
W77-11006 1022 5D

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Methods of Recovering Wool Grease from Spent Wool Scouring Liquor,
W77-11013 1022 5D

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Apparatus for Disposal of Effluents,
W77-11017 1022 5D

Dewatering Machine,
W77-11019 1022 5D

Louisiana Pacific Corporation and Crown Simpson Pulp Company (Requests for Variances from BPCTCA).
W77-11459 1022 5G

Conceptual Model for Activated Sludge Processes,
W77-11485 1022 5D

Characteristics of Poultry Processing Effluent,
W77-11531 1023 5B

Decontaminating Lake Superior of Asbestos Fibers,
W77-11539 1023 5D

Making Waste Water Purer Still,
W77-11548 1023 5D

A Guide for the Design of Dissolved-Air (Pressure) Flotation Systems for Activated Sludge Processes,
W77-11581 1023 5D

Suspended Solids Measurement Gives Improved Control,
W77-11624 1023 5D

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

McAlpine Win Effluent Treatment Works Contracts.
W77-11667 1023 5D

Enhancement of High-Rate Disinfection by Sequential Addition of Chlorine and Chlorine Dioxide,
W77-11668 1023 5D

Municipal Wastewater Treatment Plant Sludge and Liquid Sidestreams,
W77-11671 1023 5D

Disinfection of Wastewater, Task Force Report.
W77-11672 1023 5D

Nitrification and Heavy Metal Removal in the Activated Sludge Treatment Process,
W77-11673 1023 5D

Anaerobic Digestion of Solid Waste and Sewage Sludge to Methane,
W77-11674 1023 5D

Water Treatment Using Oxidised Sludge.
W77-11677 1023 5D

Biological Effluent Treatment Plant - With Three Tanks Arranged for Reversible Flow,
W77-11678 1023 5D

Small-Scale Plant for Mechanically/Biologically Purifying Waste Water.
W77-11679 1023 5D

Non-Biodegradable Waste Water Treatment - By Wet Oxidn. Followed by Biological Aeration in Presence of Active Carbon.
W77-11680 1023 5D

Aeration Tank for Activated Sludge Treatment of Waste Water - Is Smaller and Requires Less Power for a Given Treatment Capacity.
W77-11682 1023 5D

Oxidizing Organic Refractory Cpds. in Waste Water - By Contact with Ozone Contg. Gas and Simultaneous UV Irradiation.
W77-11683 1023 5D

Aq. Ferric Chloride Soln. for Water Treatment--Obtd. by Neutralising and Chlorinating Pickling Liq. Contg. Ferrous Chloride.
W77-11684 1023 5D

Sludge Purging Control for Waste Water Purificn. Plant--Automatically Prevents Overpurge Without Endangering Quality of Treated Water.
W77-11685 1023 5D

Effluent Purification by Biological Rotary Contactor--Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

Waste Water Organic Residue Detoxification--By Two Stage Thermal Treatment and Separation at Specified Temp.
W77-11687 1023 5D

Liq. E.G. Aq. Effluent Treatment with Ozone--Employing Used Ozone and Then Fresh Ozone, Both Pressurized.
W77-11689 1023 5D

Biological Control of Water Pollution.
W77-11690 1023 5G

Macrophytes and Water Purification,
W77-11694 1023 5G

The Pressure Drum Filter for Sludge Dewatering.
W77-11698 1023 5D

Basic Units Manufactured for Sludge Treatment.
W77-11699 1023 5D

Using Wetlands for Wastewater Treatment.
W77-11700 1023 5D

Physical-Chemical Treatment System for Sewage.
W77-11701 1023 5D

Adaptation to Nitrification of Activated Sludge Systems Treating Highly Nitrogenous Waters,
W77-11706 1023 5D

Treatment of Water and Effluent by Air Flotation.
W77-11717 1023 5D

Reduction of Non-Ionic Detergents in Connection with Basic Indicators of Urban Sewage Contamination (Redukcja detergentow niejonowych w powiazaniu z podstawowymi wskaznikami zanieczyszczen sciekow miejskich),
W77-11724 1023 5D

Experience with the Bacteriological Control of Waste Water Purification (A szennyviztisztas bakteriologiai ellenorzesenek tapasztalatai),
W77-11725 1023 5D

Evaluation of Settling Basin Performance,
W77-11744 1023 5D

Chlorination Disinfection Study at Prophetstown Sewage Treatment Plant.
W77-11745 1023 5D

Aerobic Bio-Treatment of a High-Strength Leachate,
W77-11746 1023 5D

Remove Algae and High Costs Together,
W77-11755 1023 5D

Instrumentation and Automation Experiences in Wastewater-Treatment Facilities,
W77-11760 1023 5D

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

Use of Iron Salts for Control of Activated Sludge Bulking Caused by Sphaerotilus,
W77-11789 1023 5D

Biological Evaluation of Best Practicable and Best Available Treatment Control Technology for Petroleum Refinery Wastewaters,
W77-11790 1023 5D

Laboratory Studies of Upgrading Effluent Water Quality from Sewage Lagoons,
W77-11793 1023 5D

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

Removal of Mercury from Aqueous Solutions Employing Naval Stores Products,
W77-11916 1023 5D

Thin Cell Electromembrane Separator,
W77-11917 1023 3A

Removal of Explosive Materials from Water by Chemical Interaction on Strongly Basic Ion Exchange Resins,
W77-11921 1023 5D

Process for Removing Oil from Oily Waste Water Streams,
W77-11922 1023 5D

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Waste Treatment of Fluoroborate Solutions,
W77-11924 1023 5D

Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

Method for Improving the Filterability of Aluminum Salts Precipitated from Aqueous Solutions,
W77-11930 1023 5D

Impact of Hatchery Wastewater Irrigation Upon Contiguous Stream Quality,
W77-11973 1023 5D

Meeting Water-Recycle Requirements at a Western Zero-Discharge Plant,
W77-12006 1023 5D

Biokinetics of Low Temperature Waste Assimilation,
W77-12143 1023 5D

The Effects of Wastewater Application on the Growth and Chemical Composition of Forages,
W77-12198 1023 5E

A Predictive Model for the Removal of Pollutants in Packed Beds Useful for Optimal Process Design,
W77-12251 1024 5D

Magnetic Separation of Soluble Organic Pollutants from Water,
W77-12255 1024 5D

Process for Purifying Industrial Effluents.
W77-12335 1024 5D

PCBs Can Be Made Virtually Harmless.
W77-12336 1024 5D

Synthesis and Study of Ion-Exchange Celluloses. Their Use in the Purification of Waste Waters from the Textile Industry. I. Synthesis of a Cellulose Grafted with Polyacrylic Acid Chains and of a Cellulose Incorporating Quaternary Ammonium (In French),
W77-12337 1024 5D

Study of the Influence of Electrocoagulation Conditions on the Efficiency of Pulp and Paper Mill Effluent Purification (Izuchenie vliyaniya uslovii elektrokoagulyatsii na effektivnost' ochistki stochnykh vod tsellyulozno-bumazhnoi promyshlennosti),
W77-12338 1024 5D

Calculations of Scraping Mechanisms for the Removal of Precipitate from Sedimentation Tanks (Raschet skrebkovykh mekhanizmov dlya udaleniya osadka iz otstoynikov),
W77-12339 1024 5D

Investigation of Combined Washing of the Sand Filter in the Purification of Kraft Mill Effluents (Issledovanie kombinirovannoi promyvki peschanogo fil'tra pri ochistke stokov sul'fat-tsellyuloznogo proizvodstva),
W77-12340 1024 5D

Reverse Osmosis and Synthetic Membranes: Theory, Technology, Engineering,
W77-12341 1024 5D

Application of Reverse Osmosis in the Pulp and Paper Industry,
W77-12342 1024 5D

Advanced Waste Liquor Treatment at Toten (Cellulosefabrik A/S) World's First Filtration Installation of its Kind (Avansert lutbehandling pa Toten (Cellulosefabrik A/S) Lutfiltrering med verdens forste anlegg i sitt slag),
W77-12343 1024 5D

Processing of Coagulation Sediments of Textile Industry Effluents (Badania nad przerabianiem osadow pokoagulacyjnych ze sciekow przemyslu wlokienniczego),
W77-12346 1024 5D

Studies on the Treatment of Spent Liquors from Mitsumata and Manila Hemp Pulping, (In Japanese),
W77-12348 1024 5D

Sorption of Soluble Components of Pulp and Paper Industry Effluents by Activated Sludge (Zakonomernosti sorbtsii rastvorennykh komponentov stochnykh vod ts(ellyulozno-)b(umazhnoy) p(romyshlennosti) aktivnym ilom),
W77-12350 1024 5D

Selection of Parameters for Process Control of Biological Purification of Kraft Mill Effluents (Vybor kanalov upravleniya protsessom biologicheskoi ochistki stochnykh vod sul'fattsellyuloznogo proizvodstva),
W77-12351 1024 5D

Effect of a Surface-Active Agent on the Biological Purification of Industrial Effluents (Vliyanie poverkhnostnoaktivnogo veshchestva na protsess biologicheskoi ochistki promstokov),
W77-12352 1024 5D

Effect of Department Discharges on the Chemical Purification of Industrial Effluent. Part 1. Discharge of a Yeast-Producing Plant -- Spent Fermentation Liquor (O vliyanii tsekhovykh stochnykh vod na protsess khimicheskoi ochistki promstokob. Soobshchenie 1. Stok drozhzhevogo proizvodstva -- posledrozhzhevaya brazhka),
W77-12353 1024 5D

Characteristics of a Fluidized Bed and its Effect on the Course of the Flotation Process (Kharakteristika pennogo sloya i ego vliyanie na khod flotatsionnogo protsessa),
W77-12355 1024 5D

Pressurized Pipeline Transport of Effluent Sediments (K voprosu perekachki osadkov stochnykh vod po napornym truboprovodam),
W77-12356 1024 5D

Experimental Equipment for Cultivation of Activated Sludge Under Conditions of Constant Oxidation Potential (Eksperimental'naya ustanovka dlya kul'tivirovaniya aktivnogo ila v usloviyakh postoyanstva okislitel'nogo potentsiala),
W77-12357 1024 5D

Work of Centroproject on the Problems of Textile Effluent Treatment (Problematika cisteni textilnich odpadnich vod a jeji reseni v Centroprojektu),
W77-12359 1024 5D

Chemical Concentration by Adsorption,
W77-12360 1024 5D

Treatment of Effluent from a Pulp and Paper Mill Through Ozone and the Activated Sludge Process (Die Behandlung des Abwassers einer Zellstoff- und Papierfabrik mittels Ozon und Belebtschlammverfahren),
W77-12362 1024 5D

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

New Oxygen Meters.
W77-12399 1024 5A

Regionalizing Wastewater Facilities on the Oregon Coast,
W77-12400 1024 5D

Dual Water Systems -- Design,
W77-12402 1024 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon--pH and Temperature Effects,
W77-12405 1024 5D

A Model to Predict Concentration and Head-Loss Profiles in Filtration,
W77-12406 1024 5D

Activated Sludge Process Design,
W77-12407 1024 5D

Control Strategies for the Activated Sludge Process,
W77-12409 1024 5D

Evaluation of a Comprehensive Kinetic Model for the Activated Sludge Process,
W77-12410 1024 5D

Performance of Storm Drainage Simulation Models,
W77-12411 1024 5D

The Technical-Economic Model of Water Quality in the Sajo River (A sajo vizminosegi muszaki-kozgazdasagi modellje),
W77-12413 1024 5G

Polychlorinated Biphenyl Concentration in Sewage and Sludges of Some Waste Treatment Plants in Southern Ontario,
W77-12414 1024 5B

Metering Total Oxygen Demand,
W77-12416 1024 5A

The Use of a Macroreticular Resin XAD-2 for the Recovery of Volatile Organic Compounds from Municipal Sewage,
W77-12417 1024 5D

High Energy Electron Irradiation of Wastewater Liquid Residuals,
W77-12419 1024 5D

Removal of Phosphate by Powdered Aluminum Oxide Adsorption,
W77-12421 1024 5D

Selective Renovation of Eutrophic Wastes Phosphate/Sulphate Exchange,
W77-12422 1024 5D

Pilot-Plant Experiments on Sewage Purification in an Activated Sludge System with a Selector (Poloprovozni Pokusy S Cistenim Mestske Odpadni Vody V Aktivacnim Systemu Se Selektorem),
W77-12423 1024 5D

Japanese Physico-Chemical System.
W77-12424 1024 5D

Planning, Executing and Profiting from Polymer Trials,
W77-12425 1024 5D

Effect of Residence Time on Fixed Film Reactor Performance,
W77-12427 1024 5D

Water Pollution Abatement Program Serves Independence, Missouri,
W77-12432 1024 5D

Control Functions at Coppermills Works.
W77-12433 1024 5D

Removal of Nitrate from Effluent Following Discharge on Surface Water,
W77-12435 1024 5D

Design of Sewage Oxidation Ponds for Australian Climatic Conditions,
W77-12438 1024 5D

Deceptive Horse Barn.
W77-12443 1024 5D

Treatment in the Sewer Cuts the Works' Load,
W77-12448 1024 5D

Waste Water Treatment System.
W77-12451 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Aqueous Effluent Purification by Microbial Fermentation-Feeding Biomass to Protozoa to Form Biomass as Protein Source.
W77-12453 1024 5D

Oxygen Addition Regulation in Water and Sewage Purification -Using Ejectors to Secure Intimate Contact with Activated Sludge.
W77-12454 1024 5D

Elimination of Nitrogen Compounds from Waste Water - By Downwards Passage Through Biological Treatment Units in a Suitable Atmosphere.
W77-12455 1024 5D

Waste Water Aerating and Clarifying Tank-Has Perforated Plate for Circulation Between Aeration and Clarification Zones.
W77-12456 1024 5D

Treatment of Aqueous Waste Streams.
W77-12458 1024 5D

How to Conduct a Wastewater Survey, Part I - Identifying Physical Characteristics of Sewer Systems,
W77-12465 1024 5G

Evaluation of Flow Equalization at a Small Wastewater Treatment Plant,
W77-12473 1024 5D

Conventional Tertiary Treatment,
W77-12474 1024 5D

Hanover Park Tertiary Studies,
W77-12475 1024 5D

Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W77-12482 1024 5D

Mathematical Modeling of Heterogeneous Sorption in Mathematical Contactors for Wastewater Decontamination: Influence of Reversibility and Chromatographic Effects on System Design and Operation,
W77-12484 1024 5D

Water Renovation of Municipal Effluents by Reverse Osmosis,
W77-12485 1024 5D

Demonstration of a High-Rate Activated Sludge System,
W77-12486 1024 5D

Upgrading Existing Wastewater Treatment Plants - Case Histories.
W77-12488 1024 5D

Technical Assistance Project, Upper Eagle Valley Sanitation District Wastewater Treatment Facility - Avon, Colorado, March-April, 1973.
W77-12490 1024 5D

Role of Models in Urban Stormwater Management Planning,
W77-12491 1024 5G

Continuing Need for Improved Operation and Maintenance of Municipal Waste Treatment Plants.
W77-12586 1024 5D

Method of Packing Media in a Tower or Bed,
W77-12684 1024 5D

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12688 1024 5D

Sewage Treatment System,
W77-12692 1024 5D

Aerated Sewerwage (sic) Effluent Disposal System,
W77-12693 1024 5D

Apparatus for Circulating and/or Aerating a Liquid,
W77-12694 1024 5D

Rotating Multitube Biocontactor for Treating Sewage,
W77-12700 1024 5D

Mixing Chamber for Thickening Sewage Sludge by Means of a Flocculation Agent Combined with Overflow Drainage Means,
W77-12701 1024 5D

Apparatus for Clarification of Waste Water Operating on Dissolved Air Flotation Process,
W77-12703 1024 5D

Sealed Sedimentation Device,
W77-12704 1024 5D

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Effect of Citrate and Carbonate Based Detergents on Wastewater Characteristics and Treatment,
W77-12773 1024 5D

Full Scale Studies on the Thermophilic Anaerobic Digestion Process,
W77-12775 1024 5D

Screening Demonstration for Three Fish Processing Plant Effluents,
W77-12776 1024 5D

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

Attenuation of Waste Water Elutriated Through Glacial Outwash,
W77-12814 1024 5D

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

Method for the Treatment of Wastewater,
W77-12936 1024 5D

Waste Water Treatment Apparatus,
W77-12937 1024 5D

Apparatus for the Treatment of Liquids,
W77-12938 1024 5D

WASTES
Contaminants in the New York Bight,
W77-02799 1006 5B

Effects of Waste Water on Estuarine Ecosystems,
W77-03914 1008 5C

Metabolism of Nitrogenous Wastes in the Eggs and Alevins of Rainbow Trout, Salmo Gairdneri Richardson,
W77-05848 1012 5C

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

Method and Apparatus for Collecting Fluid Contaminants,
W77-12686 1024 5A

WASTES WATER TREATMENT
Treating Wastes from e.g., Slaughter Houses, Tanneries - By Passing Through Electrolytically Produced Fine Bubbles into Flotation Tank.
W77-02007 1004 5D

WASTEWATER COLLECTION SYSTEMS
Network Evaluation of Wastewater Collection Economics,
W77-08331 1017 5D

WASTEWATER IRRIGATION
Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

The Effects of Wastewater Irrigation on the Activities and Movements of Songbirds,
W77-09098 1018 5C

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

WASTEWATER MANAGEMENT
Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

WASTEWATER TREATMENT
Activated Sludge Treatment of High Strength NSSC Mill Effluent,
W77-06945 1014 5D

Mathematical and Experimental Investigation of Nonsteady State Thickening of an Ideal Slurry,
W77-08207 1017 5D

Process Design of Single-Sludge Activated Sludge Systems Using Nitrate Respiration,
W77-08336 1017 5D

Treatment of Wastewater From Military Explosives and Propellants Production Industry by Physicochemical Processes,
W77-08337 1017 5D

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

WATER
Water and Sewage.
W77-03724 1008 6E

Review of PCB Levels in the Environment,
W77-10935 1022 5B

WATER ACT 1973 (UK)
Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

WATER ALLOCATION
Optimal On-Farm Allocation of Irrigation Water,
W77-12719 1024 3F

WATER ALLOCATION (POLICY)
Water Problems and Property Rights--An Economic Perspective,
W77-00174 1001 6B

Technology Assessment for New Water Development Projects, (Volume I),
W77-00527 1002 6B

A Report to the New England River Basin Commission on Outdoor Recreation with Application to the Supplemental Flood Management Study of the Comprehensive Water and Related

Land Resources Investigation of the Connecticut River Basin. Part V. Recreation,
W77-00772 1002 6B

Appropriation.
W77-01012 1002 6E

Unappropriated Water in Underground Water Basin.
W77-01014 1002 6E

Commission for Ocean Advancement Through Science and Technology.
W77-01103 1003 6E

Kelly Ranch V Southeastern Colorado Water Conservancy District (Plan of Augmentation by Developer).
W77-01112 1003 6E

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

Water Requirements for Solar Energy,
W77-02122 1005 3E

Control of Water and Eminent Domain.
W77-03503 1007 6E

General Basis of Water Rights in Utah.
W77-03504 1007 6E

Useful Modeling Concepts for the FCD Water System,
W77-03524 1007 6A

Water Management and Regulation of Water Use,
W77-03525 1007 6B

Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

The State of Utah Water - 1975,
W77-03559 1007 6B

The State of Utah Water.
W77-03560 1007 6D

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

Water (General Interpretation and Administration Provisions).
W77-04383 1009 6E

The Rocky Road to Water for Energy,
W77-04904 1010 3E

Acquisition of Water Rights.
W77-05070 1010 6E

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

United Plainsmen Association V. North Dakota State Water Conservation Commission (Conservation Planning Responsibility of State Engineer Prior to Issuing Water Permits).
W77-06081 1012 6E

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W77-06534 1013 6E

Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

The Out-of-Kilter Algorithm as a Single-Step Method for Simulation and Optimization of Vistula River Planning Alternatives,
W77-06735 1014 4A

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

The National Conference on Water.
W77-08131 1017 6E

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

Water for Food - Or for More Important Purposes. (Reallocation of Irrigation Water to Cities and Industries),
W77-08377 1017 6E

Water Rights Generally; Appropriation.
W77-08393 1017 6E

A Postscript to the Mutual Prescription Doctrine--City of Los Angeles V City of San Fernando,
W77-08490 1017 6E

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Proceedings of the International Conference on Global Water Law Systems, September 1-9, 1975, Valencia, Spain.
W77-08966 1018 6E

Distribution of Water Among Appropriators.
W77-08998 1018 6E

Recreation Usage in the Kissimmee River Basin, Florida,
W77-09269 1019 6B

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

Water Law - Well Permits - Unappropriated Water and Maximum Utilization, Hall v. Kuiper, 510 P.2d 329 (Colo. 1973),
W77-09543 1019 6D

Campbell Ranch, Inc. v Water Resources Department (Government Agency Must Comply with Notification Procedures Before Declaring Critical Ground Water Area).
W77-09568 1019 6E

An Optimal State Water Law: Fixed Water Rights and Flexible Market Prices,
W77-09587 1019 6E

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

An Evaluation of Water Reuse For Municipal Supply,
W77-10444 1021 5D

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

Ground Water Act of 1955 (Regulation of Underground Waters Thru a Permit System).
W77-10495 1021 6E

Canadian River Compact.
W77-11188 1022 6E

Rio Grande Compact.
W77-11189 1022 6E

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

An Optimization Model for Efficient Management of Urban Water Resources,
W77-12165 1023 5G

Simultaneous Investment and Allocation Decisions Applied to Water Planning,
W77-12168 1023 6A

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

Energy and the Colorado River,
W77-12836 1024 6D

The Need for a Reform of Water Use Law in Illinois,
W77-12884 1024 6E

WATER ANALYSES

Analytical Methods,
W77-04434 1009 5C

WATER ANALYSIS

The Spectrophotometric Determination of Arsenic in Sea Water, Potable Water, and Effluents,
W77-00319 1001 5A

Re-Assessment of Chelating Ion-Exchange Resins for Trace Metal Analysis of Sea Water,
W77-00320 1001 5A

The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Determination of Vinyl Chloride at Micrograms/Liter Level in Water by Gas Chromatography,
W77-00326 1001 5A

Automatic Determination of Waste Water Characteristics (Automatische Bestimmung von Abwasserkenngroessen),
W77-00338 1001 5A

Chemiluminescence Method of Determining Copper in Natural Waters, (In Russian),
W77-00404 1001 5A

Suitability of Containers for Storage of Water Samples,
W77-00436 1001 5A

Identification and Analysis of Organic Pollutants in Water.
W77-00455 1001 5A

Applications of Automatic Equipment to Water Analysis,
W77-00597 1002 5A

The Determination of Calcium- in Sea Water, Corals and Calcareous Algae by Liquid Scintillation Counting,
W77-01390 1003 5A

The Spectrometric Determination of Mercury (at 253,65 nm) In Natural Water - A Brief Literature Survey,
W77-01442 1003 5A

Performance Characteristics for the Spectrophotometric Determination of Total Iron in Freshwater Using Hydrochloric Acid,
W77-01642 1004 5A

An Automated Method for the Determination of Low-Level Kjeldahl Nitrogen in Water and Waste Water,
W77-01643 1004 5A

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

Algal Assays: Development and Application,
W77-01803 1004 5C

Extraction-Photometric Determination of Mercury in Soil and Water, (In Russian),
W77-02272 1005 5A

Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

The Use of Tenax for the Extraction of Pesticides and Polychlorinated Biphenyls from Water. II. Tests with Artificially Polluted and Natural Waters,
W77-02561 1005 5G

Chemical Catalyst Interference in the Winkler Titration Determination of Dissolved Oxygen -- A Method for Correction,
W77-02564 1005 5A

Method for Determination of Glyphosate Residues in Natural Waters Based on Polarography of the N-Nitroso Derivative,
W77-02582 1006 5A

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Study of the Solubility of Oil in Water,
W77-02765 1006 5A

Procedure for Examination of Water and Sediment Samples for Total Asbestos Fibre Count by Electron Microscopy,
W77-02766 1006 5A

Microbiological Examination of Waters and Effluents,
W77-03470 1007 5A

Nature Preservation Activity RR Investigation: Part 6. A Modified Method of Measuring the Chemical Oxygen Demand Gives a High Analytical Capacity, (In Swedish),
W77-03589 1007 5A

On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Determination of Volatile Halogenated Hydrocarbons in Water by Gas Chromatography,
W77-03787 1008 5A

Determination of Arsenic, Tungsten, and Antimony in Natural Waters by Neutron Activation and Inorganic Ion Exchange,
W77-03788 1008 5A

Identification of 1,1,1-Trichloroacetone (1,1,1-Trichloropropanone) in Two Drinking Waters: A Known Precursor in Haloform Reaction,
W77-03794 1008 5A

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

The Detection of Aeromonads of the Hydrophila-Punctata-Group, In The Hygienic Analysis of Drinking Water, (In German),
W77-04092 1008 5A

Continuous Monitoring of Total Dissolved Gases, a Feasibility Study,
W77-04430 1009 5C

An Electronic Monitor for Total Dissolved Gas Pressure,
W77-04431 1009 5C

Determination of Trace Vanadium in Natural Waters by a Combined Ion Exchange-Catalytic Photometric Method,
W77-04796 1010 5A

Extraction-Photometric Determination of Trace Amounts of Nitrite in Waters,
W77-04797 1010 5A

Optimization of a Simple Spotting Procedure for X-ray Fluorescence Analysis of Waters,
W77-04798 1010 5A

Liquid Extraction for the Rapid Determination of Halomethanes in Water,
W77-04803 1010 5A

A Rapid and Sensitive Method for Determining Volatile Organohalides in Water,
W77-04804 1010 5A

Identification and Determination of Phthalate Esters in River Water by High-Performance Liquid Chromatography,
W77-04805 1010 5A

Fractionation by Molecular Weight of Organic Substances in Georgia Coastal Water,
W77-04809 1010 5A

Mineral Springs of Iceland, their Character and Curative Properties, (In German),
W77-04842 1010 2K

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents,
W77-05262 1011 2K

A Specific Conductance Method for Quality Control in Water Analysis,
W77-05453 1011 2K

Colorimetric Method for the Determination of Arsenic(III) in Potable Water,
W77-05677 1012 5A

An Assessment of Various Types of Reference Electrode for use in Continuous Potentiometric Analysis with Particular Application to Highly Pure Waters,
W77-05678 1012 2K

Measurement of Complexation Properties of Humic and Fulvic Acids in Natural Waters with Lead and Copper Ion-Selective Electrodes,
W77-05679 1012 5A

Design and Optimization of a Teflon Helix Continuous Liquid-Liquid Extraction Apparatus and its Application for the Analysis of Organophosphate Pesticides in Water,
W77-05680 1012 5A

Gas Chromatographic Determination of Trace Amounts of Sulfur Compounds in Industrial Effluents,
W77-05681 1012 5A

Determination of Uranium in Natural Water by Preconcentration on Anion-Exchange Resin and Delayed-Neutron Counting,
W77-05682 1012 5A

Gas-Liquid Chromatographic Determination of Diflubenzuron (Dimilin) in Water as Its Trifluoroacetyl Derivative,
W77-05691 1012 5A

Evaluation of XAD-2 for Multiresidue Extraction of Organochlorine Pesticides and Polychlorinated Biphenyls from Natural Waters,
W77-05692 1012 5A

Automated Analytical System for Phenols Incorporated into Screening Method Suitable for Determination of 2-Methyl-4-Chlorophenoxyacetic Acid and/or 2,4-Dichlorophenoxyacetic Acid Herbicide Residues in Water,
W77-05707 1012 5A

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

Simultaneous Automated Determination of Chloride, Nitrite, Nitrate, and Ammonia in Water and Waste Water,
W77-06161 1013 5A

Methods for the Determination of Inorganic Constituents in Water,
W77-06338 1013 2K

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Quantitative Analysis of Enteroviruses in Water with Various Degrees of Pollution, (In Russian),
W77-07070 1014 5A

Guidelines Establishing Test Procedures for the Analysis of Pollutants,
W77-07252 1015 5A

Analyzing Nitrates in Well Water,
W77-07690 1016 5A

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Investigation of Detection Limits for Solutes in Water Measured by Laser Raman Spectrometry,
W77-08171 1017 2K

Benthic Microbial Community Respiration of a Soft-Water Lake,
W77-08296 1017 2H

NPDES Permits and Water Analyses.
W77-08953 1018 5G

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Characterization of Spent Bleaching Liquors. Part 1, Spent Liquors from the Chlorine and Alkali Extraction Stages in the Prebleaching of Pine Kraft Pulp,
W77-09731 1020 5A

Studies and Comparisons of Determinations of Phenols in Water: Application to the Examination of a Paper Mill Effluent (Etudes et comparaisons des determinations des phenols dans les eaux: application a l'examen d'un rejet de papeterie),
W77-09736 1020 5A

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Gas Stripping, Sorption, and Thermal Desorption Procedures for Preconcentrating Volatile Polar Water-Soluble Organics from Water Samples for Analysis by Gas Chromatography,
W77-09746 1020 5A

Determination of Arsenic Species in Natural Waters,
W77-09747 1020 5A

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

Chromatography of Chlorinated Biphenyls on an Ion-Exchange Resin,
W77-09749 1020 5A

Determination of Molybdenum in Seawater by Electron Paramagnetic Resonance Spectrometry,
W77-09750 1020 2K

Determination of Nitrilotriacetate in Environmental Water by Gas Chromatography of the Trimethylsilyl Ester,
W77-09751 1020 5A

Enrichment of Trace Metals in Water by Adsorption on Activated Carbon,
W77-09752 1020 5A

Automated Catalytic Ultramicrodetermination of Manganese in Natural Waters with a Miniature Centrifugal Analyzer,
W77-09753 1020 2K

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

Standardization of Methylmercury Analysis,
W77-09775 1020 5A

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

Atomic Absorption in Water and Waste Water Analysis,
W77-09909 1020 5A

Groundwater Pollution Hazard Near Sanitary Landfills on the Glaciated Plains, North Dakota - A Study of the Langdon, North Dakota Sanitary Landfill,
W77-09925 1020 5B

The Design of a Fully Automatic Liquid Injection Apparatus for Use on a Carbon Analyser,
W77-10209 1021 5A

Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

Handbook for Sampling and Sample Preservation of Water and Wastewater,
W77-10539 1021 5A

Index of Published Surface-Water-Quality Data for Oklahoma 1946-1975,
W77-10567 1021 7C

Sample Pretreatment for Determination of Some Anions in Highly Polluted Effluents (Uprava vzorku pred stanovenim nekterych aniontu v silne znecistenych odpadnich vodach),
W77-10692 1021 5A

Characterization of Spent Bleaching Liquors. Part 2. Different Sequences from Prebleaching of Pine and Birch Kraft Pulp,
W77-10723 1021 5A

Analyses of Water, Core Material, and Elutriate Samples Collected Near Buras, Louisiana (New Orleans to Venice, Louisiana, Hurricane Protection Project),
W77-10865 1022 8G

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

Chromatographic Investigation of Inositol Phosphate Esters in Lake Waters,
W77-11477 1022 5A

The Differentiation of Inorganic and Organomercury Species in Aqueous Samples,
W77-11936 1023 5A

Potentionmetric Determination of Microamounts of Sulfur Compounds in Kraft Mill Effluents (Potentsiometricheskoe opredelenie mikrokolichestv sernistykh soedinenii v stochnykh vodakh sul'fattsellyuloznogo proizvodstva),
W77-12354 1024 5A

Use of Pyrolysis/Gas-Chromatography in Analyzing Low-Volatility Organic Water Pollutants (Die Anwendung der Pyrolyse-Gaschromatographie zur Analytik von schwerluechtigen organischen Wasserinhaltsstoffen),
W77-12363 1024 5A

WATER AVAILABILITY

Preliminary Estimation of Cold Water Availability in Lakes for Fish Hatcheries,
W77-01168 1003 2H

Availability of Water for Coal Conversion,
W77-01345 1003 3E

Some Molecular Mechanisms Retaining Water in Plant Cells, (In Russian),
W77-01881 1004 2I

WATER BALANCE

Estimation and Simulation of Sheet Runoff,
W77-00439 1001 4A

A Water Balance Model and Supply Index for Wheat in South Australia,
W77-00444 1001 3F

Lakes Marion-Moultrie Stream System Investigation: Part II-Simulation Studies,
W77-00488 1001 4A

Characteristics of the Main Components of Water Balance of Sandy Desert Plant Communities, (In Russian),
W77-00882 1002 2I

The Study of Droughts by Water Budget Method over Andhra Pradesh,
W77-01130 1003 2B

Comparative Morphological and Ecophysiological Aspects of Two Sclerophyllous Chilean Shrubs,
W77-02858 1006 3B

Precipitation on the Aral Sea Surface, (In Russian),
W77-03592 1007 2B

Estimated Water Balance for the Proposed Haditha Reservoir on the Euphrates River in Iraq,
W77-03625 1008 4A

Adjustment of Measured Precipitation for Gage Undercatch,
W77-04274 1009 2B

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Annual and Seasonal Flow Variations Through the Straits of Mackinac,
W77-05958 1012 2H

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Hydrologic Relation: Between Lakes and Aquifers in a Recharge Area Near Orlando, Florida,
W77-06348 1013 4B

Investigation of Precipitation Within Forest Ecosystems, (In Hungarian),
W77-06797 1014 2B

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

A Model for the Water Regime of a Deciduous Forest with Special Consideration of the Functional Interrelationships Among Meteorological Factors, Soil Water Content and Evapotranspiration, (In German),
W77-06864 1014 2A

The Use of Lysimeters in the Hydrological Investigation of the Unsaturated Zone,
W77-07780 1016 2D

Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

Consequences of Groundwater Extraction on Evapotranspiration and Saturated-Unsaturated Flow,
W77-10422 1021 4B

The Model of the Water Balance and Nutrient Uptake as a Basis for Hydrological, Agro-Hydrological and Other Projects,
W77-12091 1023 2A

Subsurface Drainage Cost and Hydrologic Model,
W77-12166 1023 4B

Research on Efficient Water Use,
W77-12282 1024 2G

Water Relations and Photosynthesis of a Desert Cam Plant, Agave Deserti,
W77-12292 1024 2D

Weekly Water Balances of Normal and Severe Drought Years at Dharwar,
W77-12332 1024 2B

WATER BIRD

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

WATER BIRDS

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

DDE Poisoning in Wild great Blue Heron,
W77-05877 1012 5C

Avian Botulism Epizootiology on Sewage Oxidation Ponds in Utah,
W77-06282 1013 5C

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

A Check List and Notes on the Birds of Sandvis, South West Africa,
W77-10089 1020 2L

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Possible Effect of Lead on Egg-Shell Thickness in Kestrels 1874-1974,
W77-12646 1024 5C

Levels of Chlorinated Hydrocarbons in Eggs of Double-Crested Cormorants from 1971-1975,
W77-12847 1024 5B

WATER-BORNE VIRUSES

Water-Borne Viruses: Their Characterization by Raman Spectroscopy,
W77-02183 1005 5A

WATER CHEMISTRY

Stoichiometric Distance and Total Concentration: A Binary Numerical Description of Inland Water Cehmistry,
W77-00449 1001 2K

Hydrogeochemistry of the Genoa River Basin, New South Wales - Victoria (Australia),
W77-00452 1001 2K

Hydrochemistry of the Parana River,
W77-00644 1002 2K

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in the Water-Determination of Components and Toxicity of the System-I, the Theoretical Solution,
W77-01259 1003 5B

Limnological Data Report for the Maine Department of Environmental Protection--U. S. Geological Survey Cooperative Lake Studies Project,
W77-01414 1003 2H

Hydrochemistry and Ground-Water Mixing in Part of the Lincolnshire Limestone Aquifer, England,
W77-01627 1004 2F

Hydrology and Chemistry of Ground Water in Puna, Hawaii,
W77-01628 1004 2F

Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

Effects of Waterhyacinth Cover on Water Chemistry, Phytoplankton, and Fish in Ponds,
W77-02291 1005 5G

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Heterogeneous Sensitized Decomposition of Water with Sunlight,
W77-02819 1006 2K

The Composition of Rainwater at Two Sites Near Townsville, Qld. (Australia),
W77-03279 1007 2K

Aspects of the Chemical Variability of some Tasmanian Inland Waters (Australia),
W77-03283 1007 2K

Chemistry of Salt Lakes and Other Waters in the Sub-Humid Regions of Tasmania (Australia),
W77-03284 1007 2H

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

WATEQF-A Fortran IV Version of WATEQ, A Computer Program for Calculating Chemical Equilibrium of Natural Waters,
W77-04226 1009 7C

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

Boron in Coastal North Florida Rainfall,
W77-05152 1011 2K

Phase Relationships in Sea Ice as a Function of Temperature,
W77-05428 1011 2C

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Lake Trummen Restoration Project. I. Water and Sediment Chemistry,
W77-06387 1013 5G

Effect of Cryogenic Processes on the Formation of Sodium Bicarbonate Waters,
W77-06507 1013 2K

Water Chemistry and Water Quality,
W77-06778 1014 5A

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Hydrochemistry of the Lake Magadi Basin, Kenya,
W77-06967 1014 2K

The Relationship Between Cupric Ion Activity and the Toxicity of Copper to Phytoplankton,
W77-07196 1015 5C

Convective Heat Flow from Hot Springs in the Long Valley Caldera, Mono County, California,
W77-07488 1015 2K

Annotated Bibliography on Hydrobiology and Hydrochemistry of the Kara Kum Canal 1955-74, (In Russian),
W77-07540 1015 2I

Metamorphic Reactions in Flysch Rocks,
W77-07609 1016 2K

Hydrochemistry of the Nigula Swamp, (In Estonian),
W77-07859 1016 2H

Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

Hydrologic Reconnaissance of the Geothermal Area Near Klamath Falls, Oregon, with a Section on Preliminary Interpretation of Geophysical Data,
W77-09070 1018 4B

Determination of Free and Total Potential Haloforms in Drinking Water,
W77-09748 1020 5A

The Determination of Molybdenum and Tungsten in Sea and Surface Water,
W77-09754 1020 5A

Chemistry and Vegetation of Highly Acidic Streams,
W77-10744 1021 5A

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

A Note on Soil and Water Mercury Levels in Israel and the Sinai,
W77-11443 1022 5A

Impacts of Forest Management Practices on the Aquatic Environment - Phase III,
W77-11941 1023 4C

Nutrient Transport in Surface Runoff and Interflow from an Aspen-Birch Forest,
W77-12306 1024 5B

Hydrochemical Zonality of Groundwaters in the Arid Zones of the USSR,
W77-12311 1024 2K

Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

Hydrogeochemical Relationships Using Partial Correlation Coefficients,
W77-12808 1024 2F

WATER CIRCULATION

Seabed Drifter Movement in San Diego Bay and Adjacent Waters,
W77-00356 1001 5B

Currents and Circulation in the Coastal Waters of Louisiana,
W77-00887 1002 2L

Gravitational Circulation in Long Island Sound,
W77-01634 1004 2L

Method for Measuring Velocity and Direction of Currents in a Body of Water,
W77-01713 1004 7B

Theoretical Monochromatic-Wave-Induced Currents in Intermediate Water with Viscosity and Nonzero Mass Transport,
W77-02159 1005 2L

Large-Scale Current Measurements in Lake Huron,
W77-02473 1005 2H

Flow Dynamics of the Neuse River Estuary,
W77-03300 1007 2L

A Numerical Investigation of the Circulation in the Norwegian Sea,
W77-03750 1008 2L

Some Remarks on the Maintenance of the Salinity Distribution in Estuaries,
W77-03764 1008 2L

Numerical Models for the Prediction of Wave Set-Up and Nearshore Circulation,
W77-03769 1008 2L

Wind and the Surface Circulation of a Fjord,
W77-03976 1008 2L

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

Seiches, Circulation, and Storm Surges of an Ice-Free Lake Winnipeg,
W77-03987 1008 2H

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

A Data Integration Study of Lake Ontario for the Episode July 19 - August 2, 1972. Part II,
W77-05126 1011 2H

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

Transient Finite Element Shallow Lake Circulation,
W77-05806 1012 2H

Observations of the Motion Field of the Connecticut River Plume,
W77-05808 1012 2L

Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

Monroe Reservoir, Indiana, Part I: Hydrologic Circulation, Sedimentation, and Water Chemistry Part II: Nutrient Relations,
W77-06982 1014 5C

Far Field Circulation Velocities in Shallow Lakes,
W77-07164 1015 2H

Physical, Chemical, and Biological Factors in the Initiation and Destruction of Biogenic Meromixis in a Soft-Water Lake,
W77-07963 1016 5C

Transient Three-Dimensional Circulation of Lakes,
W77-08181 1017 2H

Lake Erie International Jetport Model Feasibility Investigation; The Wind-Driven Currents and Contaminant Dispersion in the Near-Shore of Large Lakes,
W77-08220 1017 5B

Suspended-Particle Transport and Circulation in San Francisco Bay: An Overview,
W77-08486 1017 2L

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

Flushing Characteristics of a Mississippi Dead-End Canal System,
W77-09721 1020 5B

Three-Layer Circulations in Estuaries and Harbors,
W77-09723 1020 2L

Deep Water Renewal and Associated Processes in North Norway,
W77-09947 1020 2L

Three-Layer Circulations in Estuaries and Harbors,
W77-10030 1020 2L

Buoyant Surface Discharge and Small-Scale Oceanic Fronts: A Numerical Study,
W77-10104 1021 2L

A Three-Dimensional Model of Lake Ontario's Summer Circulation I. Comparison with Observations,
W77-11808 1023 2H

A Simple Model of Lake Ontario's Coastal Boundary Layer,
W77-11811 1023 2H

Circulation and Temperature Structure in Large Marine Enclosures,
W77-11816 1023 2L

On the Calculation of Tidal Currents in Homogeneous Estuaries,
W77-12297 1024 2L

Saginaw Bay Water Circulation,
W77-12326 1024 2H

WATER CIRCULATON

Dispersion of Pollutants in the Strait of Canso,
W77-01928 1004 5B

WATER CODES

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

WATER CONDITIONING

Water Conditioning Device,
W77-01727 1004 5F

WATER CONFLICTS

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

WATER CONSERVANCY ACT (UTAH)

Water Conservancy Act.
W77-01011 1002 6E

WATER CONSERVATION

Effluent-Free Bleached Kraft Pulp Mill. Part VII. Sodium Chloride in Alkaline Pulping and Chemical Recovery,
W77-00466 1001 3E

Water Use on Rangelands,
W77-00846 1002 3B

Water Conservancy Act.
W77-01011 1002 6E

Unappropriated Water in Underground Water Basin.
W77-01014 1002 6E

An Exploratory Study of Possible Energy Savings as a Result of Water Conservation Practices,
W77-01052 1003 3E

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

Rangeland Development and Management in West Rajasthan,
W77-01281 1003 4A

Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

An Overview of New Pulp Bleaching Developments,
W77-01665 1004 5D

Whitewater System Closure in NSSC Corrugating Medium Manfacture,
W77-01673 1004 5D

Irrigation Scheduling for Energy and Water Conservation,
W77-02093 1005 3F

A New Technique for Conserving Water,
W77-02097 1005 3F

Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

The Irrigator's Counselor,
W77-02197 1005 3F

Salt Water Domestic Waste Treatment,
W77-02353 1005 5D

Water Resource Management in the Czechoslovakian Paper Industry During the Fifth Five-Year Plan Period (Vodni hospodarstvi papirenskeho prumyslu CSR v pate petiletce),
W77-02578 1006 3E

Impact of Water Conservation in the Design of Modern Oil Refineries,
W77-02602 1006 5D

Assatoague Marine Sanctuary: A Case Study,
W77-02686 1006 6G

Conserving Water by Antitranspirant Treatment of Phreatophytes,
W77-02863 1006 3B

Water Quality Effect of Diking a Shallow Arid-Region Lake,
W77-02871 1006 5C

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

Manufacture of Boxboard in a Closed Water Cycle (Proizvodstvo korobochnogo kartona pri zamknutom vodooborote),
W77-03791 1008 3E

Design of an Efficient Water System for a Kraft Pulp Mill,
W77-03804 1008 5D

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Experiences in Closing the Water System in a Paper and Board Mill (Erfahrungen bei der Kreislaufschliessung einer Papier- und Kartonfabrik),
W77-03818 1008 5D

No Sewers--No Growth,
W77-04666 1010 5G

No-Till in the Great Plains: Improve Production Without Irrigation,
W77-04783 1010 3F

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Water and Paper (L'eau et le papier),
W77-04812 1010 5D

Wastewater Problems and Economy (Abwasserprobleme und Wirtschaftlichkeit),
W77-04818 1010 5D

How to Reduce Steam Consumption in the Paper Mill Machine Room,
W77-04822 1010 3E

Reclamation of Water from Wastes in Southern California.
W77-04850 1010 5D

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Special Watershed Projects.
W77-05292 1011 4D

The Consumption of Water in the Paper Industry (Il consumo d'acqua nell'industria cartaria),
W77-05684 1012 3E

Closed-Cycle Utilization of Fermentation Industry Effluents (Zamknutyi tsikl ispol'zovaniya otkhodov gidroliznogo proizvodstva),
W77-05689 1012 5D

Hydrology for Soil and Water Conservation in the Coastal Regions of North Africa--Example of a Hydrological Technique for Small Basins,
W77-05945 1012 3B

Waste Treatment System Cuts Water Use by 2/3.
W77-06217 1013 5D

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

Reclamation Research in the Seventies, Second Progress Report,
W77-07600 1015 8A

What We Can Do Before the Well Runs Dry--A Summary of WRC Report No. 35 --Residential Water conservation-Milne,
W77-08101 1017 3D

Board and Division of Water Resources,
W77-08156 1017 6E

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

Provo-Jordan River Parkway Authority.
W77-09009 1018 6E

How to Reduce Water and Raw Material Consumption in Papermaking (Come ridurre i consumi d'acqua e di materie prime in cartiera),
W77-09738 1020 3E

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Kansas Task Force to Develop Water Use Program to Resolve Serious Problems,
W77-10522 1021 4B

Albuquerque Closes Water-Wastewater Cycle.
W77-10633 1021 5D

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

Rethinking Our Approach to Water Supply Provision,
W77-10746 1021 6B

Conservation of Water for Irrigation Purpose.
W77-11194 1022 6E

Drip Irrigation--A Novel Method to Save Water,
W77-11621 1023 3F

Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

Future Needs for Dry or Peak Shaved Dry/Wet Cooling and Significance to Nuclear Power Plants,
W77-11848 1023 3E

Water Usage in Paper and Board Mills,
W77-12344 1024 3E

WATER CONSERVATION LITIGATION
Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

WATER CONSUMPTION
The Effects of Pressure on Domestic Water Supply Including Observations on the Effect of Limited Garden-Watering Restrictions During a Period of High Demand,
W77-01360 1003 3D

Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Economics of Dry-Wet Cooling Towers,
W77-05191 1011 5D

Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

Manufacturing Water Use Survey, 1972 - A Summary of Results,
W77-09219 1019 3E

Use of K-4 Polymer in Increasing Antierosive Soil Stability in Irrigation Furrows, (In Russian),
W77-12153 1023 3F

WATER CONSUMPTION (EXCEPT CONSUMPTIVE USE)
Water Use Implications for Nuclear Power Stations in the United States of America,
W77-02114 1005 6G

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

WATER CONTRACTS
Clear Lake Apartments, Inc V Clear Lake Utilities (Exclusive Right to Provide Water Not a Covenant Running With the Land).
W77-03716 1008 6E

Schultz v Atkins (Claim for Easement Based on Contract for Water Rights Between Predecessors in Title).
W77-07268 1015 6E

Sale of Water Rights,
W77-08140 1017 6E

Environmental Defense Fund, Inc. V East Bay Municipal Utilities District (Water Diversion Conflicts Between Upper and Lower Riparian Users).
W77-11179 1022 6E

WATER CONTROL
Some Consequences of Area Wide Runoff Control Strategies in Urban Watersheds,
W77-01947 1004 4D

Control of Water and Eminent Domain.
W77-03503 1007 6E

The Conservancy Act of New Mexico (Creation and Powers of Conservancy Districts),
W77-05076 1010 6E

Soil Sealing Method,
W77-05657 1012 3B

Combined Water Meter and Pressure Regulator,
W77-06452 1013 3D

Artificial Water Regulation of Lake Superior--A Taking,
W77-09551 1019 6E

Agrotechnical Principles for Water and Salinity Control in the Root Zone,
W77-11064 1022 3C

Water Control Districts.
W77-11198 1022 6E

WATER CONVEYANCE
Water Transportation Service.
W77-03725 1008 6E

WATER-COOLED NUCLEAR REACTORS
Effect of Temperature and Hydroxy Aluminum Interlayers on the Adsorption of Trace Radioactive Cesium by Sediments Near Water-Cooled Nuclear Reactors,
W77-09024 1018 5B

WATER COOLING
Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

The Potential for Nuclear and Geothermal Power Plant Siting in Idaho as Related to Water Resources,
W77-03730 1008 3E

An Annular Flow Ice-Water Model Heat Sink,
W77-06889 1014 2C

A Study of Cooling Initially Uniform and Thermally Stratified Layers of Water,
W77-08444 1017 5G

Effluent Guidelines and Standards Steam Electric Power Generating Point Source Category.
W77-09558 1019 5G

Future Needs for Dry or Peak Shaved Dry/Wet Cooling and Significance to Nuclear Power Plants,
W77-11848 1023 3E

Chlorinated Cooling Waters in the Marine Environment: Development of Effluent Guidelines,
W77-12036 1023 5G

WATER COSTS
Coping with Increasing Costs,
W77-00172 1001 3D

Economic and Water Use Impacts Associated with Alternative Water Pricing Policies of Established Irrigation Districts,
W77-00672 1002 6C

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

Prospects for an Agro-Industrial Complex on the Gaza-Sinai Sea Coast,
W77-02115 1005 3A

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Pricing Urban Water,
W77-02171 1005 6D

A Comprehensive Systems Engineering Study of the True Economic Value of Unpolluted Water Versus Varying Degrees of Polluted Water,
W77-02220 1005 5G

Land Subsidence Costs in the Houston-Baytown Area of Texas,
W77-04280 1009 2F

Drip Irrigation an Efficient Technique,
W77-04321 1009 3F

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Impact of Municipal Water and Sewage Charges on Industry,
W77-09921 1020 5G

Can Irrigation with Municipal Waste Water Conserve Energy,
W77-10579 1021 5E

The Use of Polluted Sources for Water Supply,
W77-11858 1023 5F

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

WATER COURSES (LEGAL ASPECTS)
Steinbeck V Philip Stenger Sons, Inc (Alteration of Higher Topography by Land Developer Causing Artificial Drainage onto Lower Property--The Taking Issue).
W77-01049 1002 2E

WATER CURRENTS
Continental Shelf Currents in Tropical Storm Delia: Observations and Theory,
W77-12298 1024 2L

WATER-DATA ACQUISITION
Directory of Local Assistance Centers of the National Water Data Exchange (NAWDEX),
W77-04225 1009 7C

WATER DECOMPOSITION
Heterogeneous Sensitized Decomposition of Water with Sunlight,
W77-02819 1006 2K

WATER DEEDS
Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

WATER DEFICIENCY
Indices of Water Restriction and Water Deficiency Tolerance,
W77-06711 1014 6A

WATER DELIVERY
Energy for Water,
W77-01273 1003 6D

Distribution of Water to Consumers.
W77-06569 1013 6E

United States V Tulare Lake Canal Company (Reclamation Laws Concerning Sale of Land in Excess of 160 Acres).
W77-08151 1017 6E

The Use of Polluted Sources for Water Supply,
W77-11858 1023 5F

WATER DEMAND
Digital Simulation of a Basalt Aquifer System, Walla Walla River Basin, Washington and Oregon,
W77-00481 1001 4B

Energy, Water, and the West,
W77-00542 1002 6D

Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

Center Pivot Irrigation,
W77-00968 1002 3F

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

The Effects of Pressure on Domestic Water Supply Including Observations on the Effect of Limited Garden-Watering Restrictions During a Period of High Demand,
W77-01360 1003 3D

Thor Across the Limpopo.
W77-01369 1003 8A

Afforestation, Catchment Protection and Water Supply Demands,
W77-01371 1003 4D

Power and Water for South West Africa,
W77-01382 1003 3E

Quenching Saldanha's Thirst.
W77-01473 1003 3E

Water in General and Its Industrial Use in Particular (Allgemeines ueber das Wasser und Besonderes ueber seinen industriellen Gebrauch),
W77-01661 1004 3E

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

Water Use Implications for Nuclear Power Stations in the United States of America,
W77-02114 1005 6G

The Copper Industry and Water in Arizona,
W77-02166 1005 3E

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Pricing Urban Water,
W77-02171 1005 6D

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Projections of Population, Employment, Income and Water Use for Iowa River Basins, 1975-2020,
W77-03542 1007 6D

Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

Vegetative Water Use in California, 1974.
W77-03554 1007 3F

Water Resources of El Paso County, Colorado,
W77-03890 1008 6D

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Estimating Net Benefits of Recreation Under Conditions of Excess Demand,
W77-03964 1008 6D

Land Use Planning: Important Tool for Controlling Water Demands,
W77-04173 1009 6D

Development of Commercial/Institutional Parameter Units for the Main II System of Water Demand Forecasting,
W77-04182 1009 6D

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

The State of Kansas, State Water Plan Studies, Part B, Kansas Long Range Water Requirements.
W77-04852 1010 6B

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-05187 1011 6D

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Water Resources of Washtenaw County, Michigan,
W77-05759 1012 6D

Use of Water in Arkansas, 1975,
W77-05761 1012 6D

Conservational Water Pricing for Increased Water Supply Benefits,
W77-05993 1012 6D

Extended Period Simulation of Water Systems--Part B,
W77-05996 1012 4A

Predictive Water Demand Model for Central and Southern Florida,
W77-06047 1012 6D

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

Indices of Water Restriction and Water Deficiency Tolerance,
W77-06711 1014 6A

Optimization of a Three-Reservoir System by Dynamic Programming,
W77-06720 1014 4A

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

Adaptive Short-Term Water Demand Forecasting,
W77-09202 1019 6D

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

Industrial Water Use,
W77-09449 1019 6D

Water Law - Well Permits - Unappropriated Water and Maximum Utilization, Hall v. Kuiper, 510 P.2d 329 (Colo. 1973),
W77-09543 1019 6D

WATER DEMAND

An Approach to Reduce Water Consumption in Neighborhoods Through Reuse,
W77-09855 1020 5D

Water-Resources Appraisal of the Carson River Basin, Western Nevada,
W77-09992 1020 4A

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

The Potential for Growth and Development in Tennessee,
W77-10916 1022 6D

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

Crop Production Potentials in India--A Water Availability Based Analysis,
W77-11091 1022 3F

Ground Water System Evaluation for Wadi Nisah-Saudi Arabia,
W77-11426 1022 4B

Estimation of Net Water Demand of Crops in the Upper Berg River Valley,
W77-11580 1023 3F

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

Hydrology of the Sahara,
W77-12834 1024 6D

WATER DEMANDS

The Cooling Water Equation,
W77-01468 1003 6D

WATER-DEPLETION LOSSES

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

WATER DISCHARGE REQUIREMENT

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

WATER DISTRIBUTION (APPLIED)

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Irrigation and Water Rights.
W77-03502 1007 6E

Irrigation Districts Powers and Purposes.
W77-03515 1007 6E

The California State Water Project in 1975.
W77-03551 1007 6B

Land Use Planning: Important Tool for Controlling Water Demands,
W77-04173 1009 6D

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Decomposition of Water Distribution Networks,
W77-05251 1011 4A

Extended Period Simulation of Water Systems--Part B,
W77-05996 1012 4A

The California State Water Project Summary: 1974.
W77-06362 1013 8A

Lowrey v. Hodges (Temporary Permits to Use Ground Water for Irrigation).
W77-06567 1013 6E

Distribution of Water to Consumers.
W77-06569 1013 6E

Miscellaneous Provisions on Water Rights, Uses and Protection,
W77-06571 1013 6E

Water Divisions and Superintendents.
W77-06576 1013 6E

Improvement Districts.
W77-06578 1013 6E

The Methods of Distribution of Water Resources in River Development Systems,
W77-06726 1014 4A

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

Philadelphia's Water System Automation Plan,
W77-08864 1018 5F

Improved Methodology for Design and Operation of Water Distribution Systems, (Parts I-III),
W77-08940 1018 4A

Improved Methodology for Design and Operation of Water Distribution Systems, Part IV, Program Documentation,
W77-08941 1018 4A

Prototype Software for On-Line Storage Forecasting Supported by Load Forecasting and Reduced System Representation for Water Distribution Systems,
W77-08942 1018 7C

WATSIM - A Fortran Program for 24 Hour Simulation of Flows and Reservoir Fluctuations in Water Distribution Networks,
W77-08943 1018 7C

Headgates and Measuring Devices: Distribution of Stored Water.
W77-08997 1018 6E

Distribution of Water Among Appropriators.
W77-08998 1018 6E

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

Water Districts; Water Masters; Distribution of Water Generally: Change in Use or Transfer of Rights.
W77-10494 1021 6E

High Service Water Pumping Station,
W77-10545 1021 5F

Extended Period Simulation of Water Systems--Part A,
W77-10848 1022 4A

Water Rights (Constitutional Provisions).
W77-11195 1022 6E

Engineering Analysis of Water-Distribution Systems,
W77-11764 1023 4A

WATER DISTRIBUTION COSTS

Analyzing the Marginal Cost of Water Supply,
W77-04170 1009 6B

WATER DISTRIBUTION SYSTEMS

Optimization of Water Resource Systems Incorporating Earthquake Risk,
W77-02831 1006 6A

WATER DISTRICTS

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

Watershed Improvement Districts.
W77-01000 1002 6E

Kelly Ranch V Southeastern Colorado Water Conservancy District (Plan of Augmentation by Developer).
W77-01112 1003 6E

Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

Irrigation Districts.
W77-03509 1007 6E

California Water Law in Perspective,
W77-03689 1008 6E

What's Really Happening in Westlands,
W77-04921 1010 6E

Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

The Conservancy Act of New Mexico (Creation and Powers of Conservancy Districts),
W77-05076 1010 6E

Consequences to Industry of the Recent Water Legislation: The Role of the Regional Water Authority,
W77-06177 1013 5G

Water Divisions and Superintendents.
W77-06576 1013 6E

Improvement Districts.
W77-06578 1013 6E

Cincinnati's Preventive Maintenance Sewer Program.
W77-06989 1014 5G

The Operations Section of Lincoln Sewage Division,
W77-07023 1014 5D

Joint Municipal Corporation Waste Water Treatment,
W77-07920 1016 5D

Interstate Stream Commission (Creation, Membership, General Powers).
W77-08402 1017 6E

Water Districts and Commissioners.
W77-08406 1017 6E

Distribution of Water Among Appropriators.
W77-08998 1018 6E

Rural Water Districts in Kansas.
W77-09135 1019 6D

Water Districts; Water Masters; Distribution of Water Generally: Change in Use or Transfer of Rights.
W77-10494 1021 6E

Multifunctional Approach to Pollution Prevention,
W77-10638 1021 5G

WATER-ENHANCED RECREATION

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

WATER EQUIVALENT

Determination of Snow Depth and Water Equivalent by Remote Sensing,
W77-05104 1011 2C

WATER EXTRACTION RATE

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

WATER FLEAS

Toxicity of Four Pesticides to Water Fleas and Fathead Minnows,
W77-08948 1018 5C

WATER FLOW (SOILS)

A Markovian Stochastic Basis for the Transport of Water Through Unsaturated Soil,
W77-04398 1009 2G

On the Stochastic Foundations of the Theory of Water Flow Through Unsaturated Soil,
W77-04399 1009 2G

WATER FLUX

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

WATER HARVESTING

Laboratory Testing of Water-Repellent Soil Treatments for Water Harvesting,
W77-01621 1004 4D

Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

Harvesting Surface Runoff and Ephemeral Streamflow in Arid Zones,
W77-05946 1012 3B

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

Irrigation with Saline Water Under Desert Conditions,
W77-12748 1024 3C

WATER HYACINTH

Don't Waste Waterweeds,
W77-00592 1002 5D

Effects of Waterhyacinth Cover on Water Chemistry, Phytoplankton, and Fish in Ponds,
W77-02291 1005 5G

Water Hyacinths and Alligator Weeds for Removal of Lead and Mercury from Polluted Waters,
W77-02450 1005 5G

Pressing Characteristics of Waterhyacinth,
W77-02527 1005 2I

Cercospora Rodmanii, A New Pathogen of Water Hyacinth with Biological Control Potential,
W77-02540 1005 5G

Mycoleptodiscus Terrestris Leaf Spot on Waterhyacinth,
W77-02543 1005 5G

Water Hyacinths for Removal of Cadmium and Nickel from Polluted Waters,
W77-03041 1006 5G

Nutrient Removal by Water Hyacinths,
W77-07036 1014 5G

Application of Vascular Aquatic Plants for Pollution Removal, Energy and Food Production in a Biological System,
W77-07474 1015 5D

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

Hydrobiologic Data on the Lake of Chapala, State of Jalisco (Mexico), (In Spanish),
W77-10736 1021 2H

WATER HYACINTHS

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Water Hyacinths for Removal of Phenols from Polluted Waters,
W77-11268 1022 5G

WATER HYGIENE

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

WATER IMPORTING

Water Resources in the Western States: Program Policy Initiatives.
W77-00547 1002 6D

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

WATER INFILTRATION RATES

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

WATER INTAKE

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

WATER JET BEHAVIOR

The Effect of Aeration of Water Jet Spreading,
W77-08197 1017 8B

WATER LAW

The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

Waters--Fish and Game--Deposit of Pesticides in Public Waters.
W77-01042 1002 6E

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

Law, Hydrology, and Surface-Water Supply in the Upper Colorado River Basin,
W77-02119 1005 6E

Groundwater and Groundwater Law in Massachusetts.
W77-02437 1005 4B

Artificial and Natural Lakes,
W77-03694 1008 6E

Legal Aspects of Coastal Zone Management in Escambia and Santa Rosa Counties, Florida ('Escarosa'),
W77-03697 1008 6E

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

Public Law 92-500 Economic and Social Impacts: Technical Volume.
W77-04307 1009 5G

The Balancing of Convenience Doctrine Especially as Applied to Water Pollution,
W77-05046 1010 5G

Florida Water Resources Law, A Bibliography,
W77-05670 1012 6E

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Siting and Licensing Procedures, Volume I, Financing Pacific Northwest Electric Generation,
W77-07601 1016 8C

Laws Needed to Expedite Electric Generation Schedules for the Pacific Northwest: Financing, Environmental Laws and Licensing Procedures, Volume II, Environmental Laws and Siting and Licensing Procedures,
W77-07602 1016 6E

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

Water Supply and Control Developments Summarized, (Arizona).
W77-08313 1017 6E

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

Kansas Task Force to Develop Water Use Program to Resolve Serious Problems,
W77-10522 1021 4B

Nebraska Issues Regulations Under Safe Drinking Water Act of 1976.
W77-10523 1021 5G

The (West German) Waste Water Discharge Tax Law (Das Abwasserabgabengesetz),
W77-10695 1021 5G

The Politics of Salt: Background and Implications of the Mexican-American Treaty of 1944,
W77-11097 1022 6E

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

Ground Waters: Are they Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-11863 1023 5G

WATER LAWS

Application of Municipal By-Laws with Special Reference to Drainage Regulations,
W77-01485 1003 4A

WATER LEVEL DATA

Some Considerations on the Establishment of the High and Low Water Level Planes in the Great Lakes Area,
W77-01637 1004 2H

WATER LEVEL DECLINE

Declining Potentiometric Levels in Fort Walton Beach Area, Florida,
W77-09132 1019 4B

WATER LEVEL FLUCTUATION

Digital Monitors for Ohio's Wells.
W77-12675 1024 4B

WATER LEVEL FLUCTUATIONS

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Depth to Water Table, Recharge Areas, Drainage Basins, and Relief of Duval County, Florida,
W77-02311 1005 7C

Lake St. Clair Beginning-of-Month Water Levels and Monthly Rates of Change of Storage,
W77-02675 1006 2H

Reconstruction of Some of the Early Storm Surges on the Great Lakes,
W77-02797 1006 2H

The Effect of River Fluctuations Resulting from Hydroelectric Peaking on Selected Aquatic Invertebrates and Fish,
W77-03000 1006 5G

Wind-Induced Water Level Oscillations in Shallow Lagoons,
W77-03287 1007 2H

Ground-Water Levels in New Mexico, 1975,
W77-03330 1007 7C

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Shoreline Property and Recreation,
W77-04190 1009 2H

An Analysis of the International Great Lakes Levels, Board Report on Regulation of Great Lakes Water Levels. Hydrology,
W77-04191 1009 2H

Basement Flooding and Foundation Damage from Water-Table Rise in the East New York Section of Brooklyn, Long Island, New York,
W77-04227 1009 4B

Effects of Simulated Pumped Storage Operation on Northern Pike Fry, (In German),
W77-04590 1009 5C

Water Levels in Artesian and Nonartesian Aquifers of Florida, 1973-74,
W77-04985 1010 4B

Groundwater Levels in Nebraska, 1975,
W77-05274 1011 2F

Response of Ground-Water Levels to Flood Control Operations in Three Basins, Southeastern Florida,
W77-05278 1011 4B

Environmental Stability and Fish Community Diversity,
W77-06426 1013 5C

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

Water-Level Records for the Northern High Plains of Colorado, 1973-77,
W77-07486 1015 4B

Selected Water-Level Records for Western Oklahoma, 1950-1975,
W77-08163 1017 7C

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Annual Summary of Ground-Water Conditions in Arizona, Spring 1975 to Spring 1976,
W77-08732 1018 7C

Water-Level Changes in Northwestern Kansas, 1950-76,
W77-08742 1018 4B

Ground-Water Data for Michigan, 1975,
W77-08753 1018 7C

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

Man's Effect on the Fishes of the Upper Shetucket River System,
W77-09061 1018 5C

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Fluctuations of Ground-Water Levels in Lee County, Florida, In 1975 Water Year,
W77-10014 1020 2F

Some Effects of Agricultural Development and Fluctuations in Water Level on the Phytoplankton Productivity and Zooplankton of a New Zealand Reservoir,
W77-10137 1021 5C

Application of Sanborn (Application to Register Title to Land Below High Water Mark).
W77-10477 1021 6E

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Potentiometric Surface of Floridan Aquifer May 1975, and Change of Potentiometric Surface 1969 to 1975, Southwest Florida Water Management District and Adjacent Areas,
W77-11376 1022 7C

Timing of Ground Truth Acquisition During Remote Assessment of Soil-Water Content,
W77-11433 1022 2G

Analysis of the Temporal Behaviour of the Level of Lake Malawi,
W77-11565 1023 2H

Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

Water-Level Records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado, 1973-77,
W77-12373 1024 7C

Groundwater Levels in Nebraska, 1976,
W77-12393 1024 4B

WATER LEVEL RECORDERS

Headgates and Measuring Devices: Distribution of Stored Water.
W77-08997 1018 6E

WATER LEVELS

Trieste--Water Levels 1952-1971; A Study of the Tide, Mean Level, and Seiche Activity,
W77-00128 1001 2L

Hydrogeochemical Investigation of the Danube Water in Austria During the Years 1971 and 1972, (In German),
W77-00406 1001 5A

Ground-Water Levels in the United States, 1970-74: South-Central States.
W77-00430 1001 4B

Digital-Model Analysis to Predict Water Levels in a Well Field Near Columbus, Indiana,
W77-00482 1001 4B

Changes in the Water Supply in the Upper Republican Natural Resources District, Southwest Nebraska, from 1952-75,
W77-00489 1001 4B

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

Compression of Time-Series Data,
W77-01132 1003 7C

Method for Lowering Ground Water,
W77-01196 1003 8B

Connecting Channel Between Two Different Water Levels,
W77-01207 1003 8C

Mean High Water Mark and Use of Tidelands in Florida,
W77-01279 1003 2L

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

Statistical Analysis of Water-Level Springflow, and Streamflow Data for the Edwards Aquifer in South-Central Texas,
W77-01417 1003 4B

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

The Effect of the Geostrophic Flow Upon Coastal Sea Elevations in the Northern North Pacific Ocean,
W77-02477 1005 2L

Lake St. Clair Beginning-of-Month Water Levels and Monthly Rates of Change of Storage,
W77-02675 1006 2H

Records of Wells and Water Quality for the Garber-Wellington Aquifer, Northern Oklahoma and Southern Logan Counties, Oklahoma,
W77-02974 1006 4B

Measured and Simulated Ground-Water Levels in the Franklin Area, Southeastern Virginia,
W77-03326 1007 7C

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

Change in Some Elements of the River Regime in the Lower Ob' Region Upon Flow Regulation (In Relation to the Redistribution of Water Resources in the Central Region),
W77-03989 1008 4A

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Cappaert V United States (Reservation of Unappropriated Appurtenant Water Rights when Federal Government Withdraws Land from Public Domain),
W77-05066 1010 6E

Ground-Water Levels in Observation Wells in Oklahoma, 1971-74,
W77-05275 1011 7C

Lake Ontario Atlas: Surface Waves,
W77-06884 1014 2H

Ground-Water Levels in Massachusetts, 1936-74,
W77-07485 1015 4B

Use of Cross-Correlation Techniques for Determining the Relationship Between Groundwater Levels and Sources in the Nile Delta Area,
W77-07679 1016 2F

Application of Stochastic Hydrological Models in the Design of Lake Level Control,
W77-07681 1016 4A

Selected Water-Level Records for Western Oklahoma, 1950-1975,
W77-08163 1017 7C

Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

On the Fluctuations in Levels of Closed Lakes,
W77-09338 1019 2H

Selected Water-Level Records for Western Oklahoma, 1975-1976,
W77-09998 1020 7C

Ground-Water Levels in Observation Wells in Oklahoma, 1975,
W77-09999 1020 7C

Investigation of the Hydrological Balance in a Peat Swamp,
W77-10768 1021 2F

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

Ground-Water Conditions in Utah, Spring of 1977,
W77-10864 1022 4B

Ground-Water Depletion, In Feet, Allowed In A Part of Curry County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10873 1022 7C

Ground-Water Depletion, In Feet, Allowed In Central (Map LC-19) and Northern (LN-19) Lea County, New Mexico, By U.S. Internal Revenue Service for Calendar Year 1976,
W77-10874 1022 7C

Ground-Water Depletion, In Feet, Allowed in Portales Valley, Roosevelt County, New Mexico, by U.S. Internal Revenue Service for Calendar Year 1976,
W77-10875 1022 7C

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Alabama Power Company v Martin (Power Company Estopped from Asserting Flood Easement Rights).
W77-11184 1022 6E

Pressure Effects on Great Lakes Vertical Control,
W77-11782 1023 2H

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

The Effect of Increased Regulation on a Norwegian Lake, (In Norwegian),
W77-11931 1023 5G

Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

Water-Level Records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado, 1973-77,
W77-12373 1024 7C

WATER LOSS

The Measurement of Water Losses from a Forested Area Using a 'Natural' Lysimeter,
W77-01148 1003 2D

Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Use of Constant Level Jain Evaporimeter in Scheduling Irrigation,
W77-01907 1004 2D

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Changes in the Transpiration Rate and Leaf Water Content in Several Varieties of Cryptomeria Japonica Subjected to Water Stress, (In Japanese),
W77-03155 1007 2D

Product and Method for Reducing Water Loss Through Soil by Seepage,
W77-03863 1008 3B

Seepage Study of Canals in Beaver Valley, Beaver County, Utah,
W77-03880 1008 4A

Water Loss from Snowdrifts Under Oasis Conditions,
W77-04174 1009 3B

Effect of Evaporation Time and Temperature on Water Loss in Calcareous Soil,
W77-04323 1009 2D

Assessment of Water Loss Patterns with Microlysimeters,
W77-11115 1022 2D

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

WATER MANAGEMENT

People and the Sound. Water Management.
W77-06594 1013 6B

In Re City of White Bear Lake (Standard for Granting of Permits Under the Minnesota Water Management Law).
W77-08993 1018 6E

Water Rights Adjudication Act.
W77-08994 1018 6E

Computer Application in Water and Waste Water Management: A Panel Discussion,
W77-09903 1020 5D

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation,
W77-10540 1021 3C

WATER MANAGEMENT (APPLIED)

Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

Water Resources in the Western States: Program Policy Initiatives.
W77-00547 1002 6D

1974 Annual Report, (Washington Natural Resources and Recreation Agencies).
W77-00957 1002 5G

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Unappropriated Water in Underground Water Basin.
W77-01014 1002 6E

Water Management and Administration in the Southwest Florida Water Management District,
W77-01101 1003 6E

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Inland Water Pollution.
W77-01697 1004 5G

Annual Operation of a Coastal Groundwater Basin at a Prescribed Reliability Level,
W77-01882 1004 4B

Strategies to Improve Water Management in Mexican Irrigation Districts: A Case Study in Sonora,
W77-01894 1004 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

Water Management of Short-Season High-Density Cotton,
W77-02164 1005 3F

Applications of ERTS Products in Range and Water Management Problems, Sahelian Zone: Mali, Upper Volta and Niger,
W77-02167 1005 4A

The Determination of Seasonal Variations in Groundwater Recharge by Deuterium and Oxygen-18 Analysis for the Tucson Basin, Arizona,
W77-02169 1005 2F

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Effects of Water-Management Practices on the Flow of the South Platte River, Colorado,
W77-02303 1005 4B

Trickle-Drip Irrigation: Principles and Application to Water Management in Tropical Soils,
W77-02868 1006 3F

Water Usage and Wastewater Characterization at a Crops of Engineers Recreation Area,
W77-03362 1007 5A

Irrigation Districts.
W77-03509 1007 6E

Eutrophication and Restoration of Lakes Receiving Nutrients from Diffuse Sources Only,
W77-03536 1007 5C

The Objectives, Part I of the State Water Plan, (Idaho Water Resources Board).
W77-03544 1007 6B

Water for Nevada. Water Planning Report.
W77-03545 1007 6B

The California State Water Project in 1975.
W77-03551 1007 6B

Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

Meeting Water Demands in Sacramento County.
W77-03553 1007 6D

Iowa Water Resources Framework Study Plan of Study.
W77-03561 1007 6B

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

Application of Game Theory in Water Management,
W77-04009 1008 6A

Water Law and Administration in the United States,
W77-04356 1009 6E

Flood Control Regulations.
W77-04371 1009 4A

Appropriation and Use of Water (Permits and Licenses; Construction of Works).
W77-04380 1009 6E

Stormwater Management Looks to Natural Drainage.
W77-04653 1010 4A

Water Management in Linseed,
W77-04788 1010 3F

Optimal Pumping Regimes in an Unconfined Coastal Aquifer,
W77-04873 1010 4B

National Systems of Water Administration.
W77-04914 1010 6E

Systems Approach to Water Management.
W77-05008 1010 6A

Surface-Water Quantity Management Models,
W77-05013 1010 4A

Ecologic Models,
W77-05016 1010 5B

Low-Flow Frequency and Stochastic Analysis of Irrigation Ditch Flows for Central Maui, Hawaii, Final Report,
W77-05106 1011 3F

A Simple Case of Conjunctive Surface-Ground-Water Management,
W77-05198 1011 4B

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

Evaporation Reduction from Soil with Wheat, Sorghum, and Cotton Residues,
W77-05435 1011 2D

Werribee River Basin: Proposals for Water Resources Management,
W77-05524 1011 4A

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

The American Experience,
W77-05941 1012 6G

A Water Management Model for High Water Table Soils,
W77-05983 1012 2G

Proceedings Mississippi Water Resources Conference 1976.
W77-06084 1012 4A

Fresno Adopts 'Outstanding' Management Plan,
W77-06148 1013 5D

The Algebraic Technological Function - A Mechanism for Integrating Physical and Economic Factors in Groundwater Management,
W77-06339 1013 4B

State of Idaho, Interim State Water Plan, Preliminary Report.
W77-06358 1013 6B

Technical and Support Information for the State Water Plan-Part II. Snake River Basins.
W77-06359 1013 6B

Summary Report Conclusions and Recommendations: Panhandle River Basins, State Water Plan--Part Two.
W77-06360 1013 6B

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

The California State Water Project Summary: 1974.
W77-06362 1013 8A

Distribution of Water to Consumers.
W77-06569 1013 6E

Improvement Districts.
W77-06578 1013 6E

Inland Lake Demonstration Project,
W77-06599 1013 5G

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

A Dynamic Multisector Programming Approach to Regional Water Resource Management,
W77-06737 1014 6A

Short Course Proceedings: Applications of Stormwater Management Models,
W77-07066 1014 5B

Integrated Approach to Urban Waste Water Management,
W77-07095 1014 5D

Seasonal Changes of Invertebrate Populations in the Polluted River Medlock,
W77-07121 1015 5C

Instream Flow Regimens for Fish, Wildlife, Recreation and Related Environmental Resources,
W77-07192 1015 5C

Management Model for Ground Water Development,
W77-07529 1015 4B

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Treating Urban Drainage as a Utility,
W77-07947 1016 5G

Three Case Studies on the Application of the Storm Water Management Model,
W77-07955 1016 5B

An Integrated Model-Approach to the Effect of Water Management on Crop Yield,
W77-08038 1016 3F

The Use of LANDSAT DCS and Imagery in Reservoir Management and Operation,
W77-08076 1016 7B

Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

Water Resource Policies and Authorities, Coastal Zone Management Program Implementation,
W77-08114 1017 6E

Final Report of Committee VII (Final Recommendations of the International Conference on Water Law and Administration),
W77-08187 1017 6E

Diagenesis of Middle and Upper Eocene Carbonate Shoreline Sequences, Central Florida.
W77-08208 1017 2F

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

A Water Management Model for High Water Table Soils,
W77-08301 1017 3F

Allocating Buried Treasure: Federal Litigation Involving Interstate Ground Water,
W77-08491 1017 6E

Groundwater Policies Now Lean Towards Management.
W77-08660 1018 4B

Proceedings of the International Conference on Global Water Law Systems, September 1-9, 1975, Valencia, Spain.
W77-08966 1018 6E

Unlawful Use, Diversion or Waste of State Water.
W77-08995 1018 6E

Headgates and Measuring Devices: Distribution of Stored Water.
W77-08997 1018 6E

Distribution of Water Among Appropriators.
W77-08998 1018 6E

Water Resources and Water Utilization in Israel,
W77-09011 1018 6E

Modeling Urban Runoff from a Planned Community,
W77-09190 1019 5B

Water Supply Systems Planning, Management and Communication Through an Interactive River Basin Simulation Model,
W77-09212 1019 6B

Study on Economic and Policy Instruments for Water Management. Water Management in the Federal Republic of Germany.
W77-09461 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Canada.
W77-09462 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in France.
W77-09463 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

Colorado River Water Quality Improvement Program (Final Environmental Statement).
W77-09527 1019 5G

Storm Water Management Model: Level I--Comparative Evaluation of Storage-Treatment and Other Management Practices,
W77-09824 1020 5D

Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
W77-10357 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
W77-10358 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Japan.
W77-10360 1021 6E

Water Districts; Water Masters; Distribution of Water Generally: Change in Use or Transfer of Rights.
W77-10494 1021 6E

Artesian Wells.
W77-10500 1021 6E

Albuquerque Closes Water-Wastewater Cycle.
W77-10633 1021 5D

Current Trends in Water Reclamation Technology,
W77-10649 1021 5D

Rethinking Our Approach to Water Supply Provision,
W77-10746 1021 6B

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

Modeling the Conjunctive Availability of Surface-and Groundwater of a Graben in the Arid Southwest of the United States,
W77-10810 1022 4B

Dynamic Model for Long-Term Development of Water Resources Management,
W77-10820 1022 6A

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Source, Consumption and Use of Brackish Water in Israel,
W77-11061 1022 3C

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

Consultant Looks at 208 Program,
W77-11166 1022 6E

Fallen Leaf Protection Association v South Tahoe Public Utilities District (Provisions of California Water Code Requiring Specific Property Owners to Connect to Sewer Lines Upheld Against Constitutional Challenge).
W77-11182 1022 6E

Rights in State Water (Appropriation Plan).
W77-11193 1022 6E

Conservation of Water for Irrigation Purpose.
W77-11194 1022 6E

Water Control Districts.
W77-11198 1022 6E

Water-Management Model in Florida from Landsat-1 Data,
W77-11370 1022 4A

Ground Water System Evaluation for Wadi Nisah-Saudi Arabia,
W77-11426 1022 4B

The Class One Equivalency for Certain Reclamation Projects (Hearings on H.R. 13101, Which Provides for Consideration of the Comparative Production Potential of Irrigable Lands in Determining Nonexcess Acreage Under Federal Reclamation Laws).
W77-11446 1022 4B

Institutions for Water Management in a Changing World,
W77-11466 1022 6E

Surveillance in Water Quality Management,
W77-11478 1022 5G

Water Repeliency of Soils Under Citrus Trees in Egypt and Means of Improvement,
W77-11633 1023 2I

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Water-Quality Effects from Urban Runoff,
W77-11676 1023 5C

Institutionalized Inefficiency: The Unfortunate Structure of Colorado's Water Resource Management System,
W77-11768 1023 6E

Low Flow Criteria for Diversions and Impoundments,
W77-11778 1023 4A

Conservation in Kano,
W77-11993 1023 4B

Residual Waste Best Management Practices: A Water Planner's Guide to Land Disposal,
W77-12076 1023 5E

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

Water Quality Management in the Soviet Union,
W77-12398 1024 5G

Performance of Storm Drainage Simulation Models,
W77-12411 1024 5D

Urban Runoff Characteristics: Volume I - Analytical Studies,
W77-12477 1024 5B

Management for Optimum Efficiency,
W77-12510 1024 3F

Water-Table Management,
W77-12580 1024 4A

Critical Irrigation Management Decisions,
W77-12716 1024 3F

Nitrate-N Percolation Through Irrigated Sandy Soil as Affected by Water Management,
W77-12830 1024 5B

Acreage Limitation Provisions of Reclamation Law.
W77-12902 1024 6E

WATER MANAGEMENT DISTRICTS

The Water Management Constitutional Amendment Pro: Con:,
W77-05043 1010 6E

Improvement Districts.
W77-06578 1013 6E

WATER MEASUREMENT

Method for Finding Temperature Environments for Fish,
W77-01212 1003 7B

Dynamically Balanced Apparatus for Water Borne Instruments,
W77-01232 1003 7B

Hydraulic Performance of Flumes for Measurement of Sediment-Laden Flash Floods,
W77-01935 1004 2E

Head Gates; Powers of State Engineer.
W77-03507 1007 6E

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

A Note on Plexiglas HS Flumes,
W77-05965 1012 5A

Distribution of Water to Consumers.
W77-06569 1013 6E

Headgates and Measuring Devices: Distribution of Stored Water.
W77-08997 1018 6E

Measurement of Water Fluxes and Potentials in a Single Root-Soil System I. The Tensiometer-Potometer System,
W77-09308 1019 2I

WATER MOLECULE

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

WATER-ORIENTED RECREATION

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

WATER OSCILLATIONS

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Strait of Georgia Oscillations: Low-Frequency Currents and Topographic Planetary Waves,
W77-03983 1008 2L

WATER PERMITS

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Water Management and Regulation of Water Use,
W77-03525 1007 6B

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

Boyer V Dept of Health (Location of Leach Field Relative to Water Supply).
W77-03713 1008 6E

State Ex Rel Cox V Wolfe (Statute Prohibiting Removal of Material from Bed or Banks or Filling of Waters of State Without a Permit).
W77-03717 1008 6E

Environmental Law: FWPCAA Interpreted to Subject Dredging Operation of Corps of Engineers to State Permit Programs.
W77-05051 1010 5G

Water Rights in General.
W77-06061 1012 6E

Appropriation of Water Generally (Regulation of Surface Water Appropriation Through a Permit Program),
W77-06572 1013 6E

Irrigated Agriculture: Nonpoint and Point Source Water Pollution,
W77-08116 1017 5G

Toward Cleaner Water in the Pacific Northwest and Alaska--The National Water Permit Program.
W77-08121 1017 5G

Snake River Land Co V State Board of Control (Beneficial Use of Water Held Sufficient Proof of Appropriation).
W77-08135 1017 6E

Sale of Water Rights,
W77-08140 1017 6E

EPA Focuses on Municipal Enforcement,
W77-08355 1017 6E

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

Ground Water Act of 1955 (Regulation of Underground Waters Thru a Permit System).
W77-10495 1021 6E

Rights in State Water (Appropriation Plan).
W77-11193 1022 6E

Water Rights (Constitutional Provisions).
W77-11195 1022 6E

Underground Waters.
W77-11203 1022 6E

Water Law in New Zealand,
W77-12883 1024 6E

Texas Water Quality Act (Establishment of Water Quality Board).
W77-12909 1024 6E

WATER PLANS

Education and Traning in Water Resources Planning,
W77-01344 1003 6B

WATER POLICY

Paying to Pollute.
W77-00972 1002 5G

Protection of Public Water Supply.
W77-00991 1002 6E

County and Municipal Pollution Control Facilities.
W77-01108 1003 6E

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

History and Development of Multiple Objective Planning for Water Resources,
W77-01152 1003 6B

Emerging Corps of Engineers Guidelines for Implementing the Planning Requirements of WRC's Principles and Standards and Related Policies,
W77-01154 1003 6B

The Department of Transportation - Use of Multi-Objective Planning,
W77-01158 1003 6B

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Pricing Urban Water,
W77-02171 1005 6D

Proceedings of Seminar Sessions on State Water Supply Planning, Sept. - Oct. 1975, (Executive Summary).
W77-02618 1006 6B

Proceedings of Seminar Sessions on State Water Supply Planning (Sept.-Oct. 1975).
W77-02619 1006 6B

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Electric Power Development in the Pacific Northwest Region: Institutional Commitments and Alternatives, Phase I,
W77-03288 1007 6E

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Economic Modeling for Water Policy Evaluation.
W77-03924 1008 6A

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

Workshop Report Integrating Water Quality and Water and Land Resources Planning.
W77-04202 1009 6B

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Surface-Water Quality Management Models,
W77-05014 1010 5G

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

The Control of a Multipurpose Reservoir,
W77-05241 1011 4A

United Plainsmen Association V. North Dakota State Water Conservation Commission (Conservation Planning Responsibility of State Engineer Prior to Issuing Water Permits).
W77-06081 1012 6E

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

Mathematical Models in Hydrology.
W77-06708 1014 2A

Collective Utility: A Systems Approach to Water Pricing Policy,
W77-06712 1014 6C

P. L. 92-500 V Local Priorities,
W77-07229 1015 5D

Objective Function and Constraints in Water Resources Systems,
W77-08046 1016 6A

New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

Determination of Water-Resources Policies in Arid Lands,
W77-08453 1017 6B

Citizen Participation in Water Policy Formation,
W77-08603 1018 6B

Groundwater Policies Now Lean Towards Management.
W77-08660 1018 4B

Policy Innovation and Institutional Fragmentation,
W77-09053 1018 6E

A Water Residuals Inventory for National Policy Analysis,
W77-09164 1019 5G

The Central Arizona Project: An Inquiry Into its Potential Impacts,
W77-09298 1019 6B

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the Federal Republic of Germany.
W77-09461 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Canada.
W77-09462 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in France.
W77-09463 1019 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

The Sacramento-San Joaquin Delta and the Evolution and Implementation of Water Policy: An Historical Perspective,
W77-10101 1021 6E

National and Interregional Models of Land Use, Water Allocation, Soil Loss Control, and Agricultural Policy,
W77-10171 1021 6A

Study on Economic and Policy Instruments for Water Management. Water Management in the United States.
W77-10357 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in the United Kingdom.
W77-10358 1021 6E

Study on Economic and Policy Instruments for Water Management. Water Management in Finland.
W77-10359 1021 6E

A Growth and Development Model for Water Resource Policy,
W77-10747 1021 6B

The Values of Goods and Services--Implications for a Flexible National Water Policy,
W77-10837 1022 6B

Water Resource Modeling.
W77-10840 1022 6A

Quantifying Societal Goals: Development of a Weighting Methodology,
W77-10850 1022 6A

Future Water Policies (A Commentary on the National Water Commission Report),
W77-11160 1022 6E

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Water Quality Management in the Soviet Union,
W77-12398 1024 5G

Energy and the Colorado River,
W77-12836 1024 6D

Reservoir Management and the Water Scarcity Issue in the Upper Colorado River Basin,
W77-12839 1024 4A

WATER POLLUTION
Trace Organic Components as Fingerprints in Gas Chromatographic Identification of Spilled Asphalts,
W77-00085 1001 5A

Some Thoughts on Zero Discharge,
W77-00125 1001 5G

Volumetric Determination of Marine Oil Spills Using Coordinated Airborne and Surface Sampling Data,
W77-00214 1001 5A

An Optimal Prevention and Detection Model for Pollution Patrol,
W77-00217 1001 5A

Determination of N-Alkane and Methylnaphthalene Compounds in Shellfish,
W77-00220 1001 5A

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Experimental Ecosystems to Measure Fate of Oil Spills Dispersed by Surface Active Products,
W77-00251 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

Chlorinated Hydrocarbon Pesticides in Western North Atlantic Ocean,
W77-00325 1001 5B

in Inland Waters

Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

Sediment Movement Induced by Ships in Restricted Waterways,
W77-00886 1002 2L

Marine and Estuarine Sanctuaries. Proceedings of the National Workshop on Sanctuaries, 28-30 November 1975, Washington, D. C.,
W77-00888 1002 2L

Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Nonpoint Pollution and Water Quality Monitoring,
W77-00960 1002 5G

Man's Effect on the Quality of Our Water,
W77-00974 1002 5C

Corporate Responsibility in Silver Bay,
W77-00980 1002 5G

It's Time to Stop Killing the Ocean,
W77-01046 1002 5G

Nitrate and Chloride Pollution of Aquifers: A Regional Study with the Aid of A Single-Cell Model,
W77-01145 1003 5B

Availability of Water for Coal Conversion,
W77-01345 1003 3E

Environment Pollution by Organophosphorus Compounds, (In Russian),
W77-01352 1003 5B

A Review of the Pollution Abatement Situation in Industry, Municipalities and Government,
W77-01522 1003 5G

A Review of Animal Waste Regulations Around the Nation,
W77-01523 1003 5G

Animal Waste Problems Now Facing the Department of Natural Resources,
W77-01525 1003 5G

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Disposal of Beef Feedlot Manure,
W77-01536 1003 5E

Livestock and Poultry Waste Disposal Control,
W77-01538 1003 5G

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

Management and Control of Beef Feedlot Waste,
W77-01550 1003 5G

Waste Water Control -- Demonstrated for a River Profile (Abwasserkontrolle -- demonstriert an einem Flussprofil),
W77-01648 1004 5B

A Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W77-01677 1004 5A

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Observations on the Distribution of Calcium Carbonate in the Soil and Ground Waters, (In Hungarian),
W77-01733 1004 2K

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

Water Pollution Investigation: Ashtabula Area,
W77-01780 1004 5C

Shallow Ground-Water Salinization in Dryland Farm Areas of Montana,
W77-01822 1004 5B

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance, and Life Histories of Benthic Organisms,
W77-01841 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

Proceedings: 8th Annual Water Resources Seminar Groundwater Resources and Development November 24 and 25, 1975.
W77-02223 1005 4B

Factors Determining Aspects of Fish Parasitofauna Formation in the Kakhovka Reservoir, (In Russian),
W77-02246 1005 5C

Analgological Survey of the Sondeledfjord Near Risor, S. Norway: A 'Land-Locked' Fjord Exposed to Pollution, (In Norwegian),
W77-02252 1005 5B

Organic Pollutants Contributed to Groundwater by a Landfill,
W77-02407 1005 5B

Groundwater and Groundwater Law in Massachusetts.
W77-02437 1005 4B

National Environmental Statistical Report,
W77-02447 1005 7C

Kinetics of the Activated Carbon-Steam Reaction,
W77-02519 1005 5D

Effects of Recreation on Water Quality in Wildlands,
W77-02590 1006 5C

Groundwater Pollution by Wood Waste Disposal,
W77-02591 1006 5B

Cadmium in the Environment - III: A Toxicological and Epidemiological Appraisal,
W77-02633 1006 5B

Sampling and Analysis of Selected Toxic Substances. Task II-Ethylene Dibromide,
W77-02644 1006 5A

Summary of Ground-Water Quality Impacts of Uranium Mining
Mineral Belt, New Mexico,
W77-02648 1006 5B

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Water Measurement and Monitoring in Energy Developing Areas,
W77-02653 1006 5G

Scanning Thermal Plumes,
W77-02682 1006 5A

Environmental Measurements of Air and Water Quality,
W77-02880 1006 5A

Distinctive Features of Self-Purification of Water and Sediments of a Shallow Sea as Exemplified by the Sea of Azov, (In Russian),
W77-02897 1006 5G

Experience in Centralized Collection, Processing and Analysis of Sanitary-Hygienic Information, (In Russian),
W77-02908 1006 5A

The General Character of the Water of the Middle of the Saale River, (In German),
W77-02910 1006 5B

Chemical Composition and Methods for Purifying Phenolic Waste Waters Resulting from Rapid Thermolysis of Lignites of the Irsha-Borodino and Moscow Regions,
W77-02993 1006 5D

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Temperature-Induced Changes in Acute Toxicity of Zinc to Atlantic Salmon (Salmo Salar),
W77-03049 1006 5C

Recovery of Polluted Lakes; A Swedish Research Program on the Effects of Advanced Wastewater Treatment and Sewage Diversion: 7. Diffuse Municipal Pollution: Examples from the Towns of Motala and Uppsala, (In Swedish),
W77-03057 1006 5D

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Baseline Study of Microbial Activity in the Beaufort Sea and Gulf of Alaska and Analysis of Crude Oil Degradation by Psychrophilic Bacteria,
W77-03223 1007 5C

Microbial Release of Soluble Trace Metals from Oil Impacted Sediments,
W77-03225 1007 5C

Current Measurements in the Beaufort Sea,
W77-03228 1007 2L

Effects of Seasonability and Variability of Streamflow on Nearshore Coastal Areas,
W77-03229 1007 5C

Gulf of Alaska Study of Mesoscale Oceanographic Processes (Gas-Mop),
W77-03230 1007 6G

Numerical Studies of Alaskan Region,
W77-03231 1007 5B

Bristol Bay Oceanographic Processes (B-BOP),
W77-03232 1007 5B

STD Mappings of the Beaufort Sea Shelf,
W77-03233 1007 2L

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Mesoscale Currents and Water Masses in the Gulf of Alaska,
W77-03236 1007 5B

Transport of Pollutants in the Vicinity of Prudhoe Bay, Alaska,
W77-03238 1007 5B

Near-Shore Atmospheric Modification,
W77-03242 1007 5B

Coastal Morphology and Sedimentation, Gulf Coast of Alaska (Glacial Sedimentation),
W77-03244 1007 5B

The Environmental Geology and Geomorphology of the Gulf of Alaska Coastal Plain,
W77-03246 1007 2L

Distribution, Composition and Transport of Suspended Particulate Matter in the Gulf of Alaska and Southeastern Bering Shelf,
W77-03248 1007 2L

Offshore Permafrost Studies, Beaufort Sea,
W77-03249 1007 2L

Distribution and Character of Icings in Northeastern Alaska,
W77-03252 1007 2C

A 'Herring-Bone' Pattern of Possible Taylor-Gorter-Type Flow Origin Seen in Sonographs,
W77-03253 1007 5B

Seismic and Volcanic Risk Studies - Western Gulf of Alaska,
W77-03260 1007 2L

Offshore Permafrost-Drilling, Boundary Conditions, Properties, Processes and Models,
W77-03261 1007 5B

Beaufort Seacoast Permafrost Studies,
W77-03262 1007 2C

Faulting and Instability of Shelf Sediments - Western Gulf of Alaska,
W77-03264 1007 2L

The Interaction of Oil with Sea Ice in the Arctic Ocean,
W77-03267 1007 5C

Operation of an Alaskan Facility for Applications of Remote-Sensing Data to OCS Studies,
W77-03277 1007 7B

Residual Waste Management Research and Planning Projects, September 1975,
W77-03355 1007 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, and Chemical Oceanography.
W77-03358 1007 5B

Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress.
W77-03360 1007 5A

The Impact of Fargo, North Dakota's Waste Discharges on the Interstate Waters of the Red River of the North, September 1969-April 1970,
W77-03361 1007 5B

Mussel Test for Biological Control of Water Pollution (Kagylo-teszt vizsennyezesek biologiai hatasanak vizsgalatara),
W77-03454 1007 5A

Marine Sanitation Device Standard.
W77-03531 1007 5G

Unions Fight a Jones Act Waiver.
W77-03532 1007 6E

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas which May Contribute to Drinking Water Problems,
W77-03567 1007 5B

The Distribution and Transport of Bed Sediments and Persistent Pollutants in the Ottawa River, Canada,
W77-03645 1008 5B

The Role of Flocculation in the Transport of Particulate Pollutants in the Marine Environment,
W77-03646 1008 5B

Mercury Transport by Bed Sediment Movements,
W77-03647 1008 5B

Heavy Metal Pollutants in the Sediments of the Rhone River,
W77-03651 1008 5B

Transport of some Organochlorines in B. C. Waters,
W77-03653 1008 5B

Heavy Metals in the Lower Mississippi,
W77-03654 1008 5B

The Role of Tin in Bacterial Methylation of Mercury,
W77-03668 1008 5B

Bacterial Mobilization of Mercury in Chesapeake Bay,
W77-03670 1008 5C

Water Pollution Control Administration, A Memorandum Report on a Reconnaissance Study.
W77-03684 1008 5G

Deleterious Substances in Streams.
W77-03721 1008 6E

The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

Distribution of Low-Molecular-Weight Hydrocarbons in Southern Beaufort Sea,
W77-03793 1008 5B

Ecosystem of the River Piva and Biological Valorization of its Waters, (In Serbo-Croatian),
W77-03852 1008 5B

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

An Oil Slick Sampling System,
W77-03909 1008 5A

Crude Oil Spills Research. An Investigation and Evaluation of Analytical Techniques,
W77-03910 1008 5A

Port Collection and Separation Facilities for Oily Wastes. Vol VI. Impact of Offshore Terminals on Contiguous Ports,
W77-03923 1008 5G

Forecastings a Line of Investigations of Member Countries of the Council of Mutual Economic Assistance in the Area of Environmental Hygiene, (In Russian),
W77-04016 1008 5G

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Leachate Damage Assessment, Case Study of the Peoples Avenue Solid Waste Disposal Site in Rockford, Illinois,
W77-04122 1009 5B

The Impact of Intensive Application of Pesticides and Fertilizers on Underground Water Recharge Areas Which May Contribute to Drinking Water Supplies. A Preliminary Review,
W77-04128 1009 5B

Evaluating Well Construction,
W77-04131 1009 8B

Preliminary Assessment of Suspected Carcinogens in Drinking Water, Report to Congress.
W77-04135 1009 5A

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Time of Travel of Solutes in Mississippi River from the Arkansas-Louisiana State Line to Plaquemine, Louisiana,
W77-04241 1009 5B

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Industry Category 1a, Ore Mining and Milling.
W77-04303 1009 5G

Residue Dynamics of Di-2-Ethylhexyl Phthalate in Fathead Minnows (Pimephales Promelas),
W77-04338 1009 5C

Toward a Global Monitoring Program for Transuranics and Other Marine Pollutants,
W77-04522 1009 5C

The Ability of Herring and Plaice Larvae to Avoid Concentrations of Oil Dispersants,
W77-04539 1009 5C

Effect of Hydrogen Sulfide on Development and Survival of Eight Freshwater Fish Species,
W77-04552 1009 5C

Tasks and Principles of Biological Analysis of the Degree of Pollution of Water Bodies, (In Russian),
W77-04598 1009 5A

Bill Protects Farms From Nuisance Suits,
W77-04605 1010 5G

Handling Dairy Wastes,
W77-04610 1010 5B

Effects of Agricultural Land Uses on Runoff Quality.
W77-04612 1010 5C

Confined Animals and Public Environment,
W77-04617 1010 5B

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Ground-Water Pollution Aspects of Land Disposal of Sewage from Remote Recreation Areas,
W77-04756 1010 5B

Design and Optimization of Ground-Water Monitoring Networks for Pollution Studies,
W77-04759 1010 5A

Monitoring Cyclic Fluctuations in Ground-Water Quality,
W77-04760 1010 5B

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Quantifying the Natural Flushout of Alluvial Aquifers,
W77-04889 1010 5B

Improving the Sanitary Protection of Ground Water in Severely Folded, Fractured, and Creviced Limestone,
W77-04890 1010 5B

Nitrogen and Metal Contamination of Natural Waters from Sewage Sludge Disposal on Land,
W77-05002 1010 5B

State Program Elements Necessary for Participation in the NPDES Program: Application of Permit Program to Agricultural Activities,
W77-05061 1010 6E

Sedimentation in the Lake of Tunis: A Lagoon Strongly Influenced by Man,
W77-05206 1011 5B

Field Detection and Damage Assessment Manual for Oil and Hazardous Material Spills.
W77-05374 1011 5A

Evaluation of Multi-Purpose Offshore Industrial-Port Islands: General Island Characteristics.
W77-05377 1011 5G

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Temperature Preference and Movement of Fish in Relation to a Long, Heated Discharge Channel,
W77-05572 1011 5C

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Sample Collecting Apparatus,
W77-05652 1012 5A

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Pennsylvania Uses Liners to Control Ground Water Contamination from Landfill Operations,
W77-06172 1013 5G

Septic Tank Pollution Cut.
W77-06174 1013 5D

Inorganic Pollution from Forests and Rangelands,
W77-06239 1013 5B

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Interest Group Perceptions of Development Issues in Tidewater Virginia,
W77-06400 1013 6G

Nonpoint Sources and Planning for Water Pollution Control,
W77-06461 1013 5B

People and the Sound. Water Management.
W77-06594 1013 6B

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Community Structure, Distribution, and Interrelationships of Marine Birds in the Gulf of Alaska,
W77-06810 1014 6G

Seasonal Distribution and Abundance of Marine Birds,
W77-06815 1014 6G

A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines.
W77-06850 1014 5A

Pollution Prevention, Not Control Called Key to a Clean Environment.
W77-06861 1014 5G

Loss of 2,4-D in Runoff from Plots Receiving Simulated Rainfall and from a Small Agricultural Watershed,
W77-06908 1014 5B

Energy Development: The Environmental Tradeoffs. Volume 4: The Background Papers,
W77-06957 1014 6G

Rapid Determination of Total Organic Carbon and its Application to Water Research, (In Japanese),
W77-07183 1015 5A

Proceedings of the Annual Conference, April 20-23, 1975, Toronto, Ontario,
W77-07329 1015 5D

Legal Decisions and Opinions in Pollution Cases,
W77-07436 1015 5G

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Energy Development and Its Effect on Ground Water,
W77-07691 1016 5B

Waste Management for the Coastal Zone: Concepts for the Assessment of Ocean Outfalls,
W77-07747 1016 5E

Statistical Characterization of Dilute Particulate Suspensions in Turbulent Fluid Fields,
W77-08330 1017 5B

Some Experimental Data on the Study of the Biological Action of Ethylbutylamine as a Water Pollution Factor, (In Russian),
W77-08439 1017 5A

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

Mussels (Mytilus Sp.) as an Indicator of Lead Pollution,
W77-08693 1018 5C

Utility Analysis for the Urban Growth Inside the Recharge Zones of the Groundwater Resources of San Antonio, Texas,
W77-08713 1018 6B

Cooperative Gulf of Mexico Estuarine Inventory and Study--Texas: Area Description,
W77-08916 1018 2L

Methane Production and Consumption in Anoxic Marine Sediments,
W77-09230 1019 5C

Trace Metals in Mangrove Seedlings from Polluted and Unpolluted Bays in Puerto Rico,
W77-09240 1019 5A

May 1974 Baseline Investigation of Deepwater Dumpsite 106.
W77-09243 1019 5B

Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

Dairy Manure Can Be Used Safely,
W77-09389 1019 5G

Water Management Aspects of the Agricultural Utilization of Liquid Manure and Preliminary Expenditure Standards, (In German),
W77-09391 1019 5G

Water Management Problems Involved in the Treatment and Utilization of Liquid Manure, (In German),
W77-09392 1019 5D

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

Water Transport of Wood (In Canada): The Current Situation,
W77-09755 1020 5C

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

Environmental Applications of Advanced Instrumental Analyses: Assistance Projects, FY 75,
W77-09782 1020 5A

The Case for the Expanded Study of Freshwater Pollution Zoology,
W77-10086 1020 5C

Environmental Sciences.
W77-10098 1020 6G

Reduction of 2, 4-D Load in Surface Runoff Down a Grassed Waterway,
W77-10323 1021 5G

Determination of Dimethylnitrosamine in Air and Water by Thermal Energy Analysis: Validation of Analytical Procedures,
W77-10329 1021 5A

The Radiological Consequences of Releases from Nuclear Facilities to the Aquatic Environment,
W77-10385 1021 5C

Radiological Impacts of Releases from Nuclear Facilities into Aquatic Environments-USA Views,
W77-10386 1021 5B

Etude de L'influence du Cadmium Stable sur le Transfert du Zinx-65 en Ecosysteme Irrigue par Submersion (Riziere Irriguee), (Study of the Influence of Stable Cadmium on the Transfer of Zinc-65 in an Ecosystem Irrigated by Submersion (Irrigated Rice Field),
W77-10387 1021 5C

Etude de la Contamination de Constituants du Milieu Marin par des Formes Solubles et Insolubles de Radionuclides, (Study of the Contamination of Components of the Marine Environment by Soluble and Insoluble Forms of Radionuclides),
W77-10388 1021 5C

Behaviour of Caesium-137 in the Marine Environment,
W77-10389 1021 5C

A Trace Element Study in the Thames Estuary,
W77-10391 1021 5C

Le Transfert du Zinc-65 de Sediments a des Larves de Chironomides et a un Poisson D'eau Douce et L'effet du Cadmium sur ce Transfert, (Transfer of Zinc-65 from Sediments to Chironomid Larvae and to a Freshwater Fish and the Effect of Cadmium on Transfer),
W77-10393 1021 5C

The Behaviour of SR90 and CS137 in the Waters of the Baltic Sea,
W77-10394 1021 5B

Plutonium Isotopes in Aquatic Foodchains in the Baltic Sea,
W77-10395 1021 5C

Experimental Studies on Plutonium Kinetics in Marine Biota,
W77-10396 1021 5B

Adsorption-Desorption Characteristics of Plutonium and Americium with Sediment Particles in the Estuarine Environment, Studies Using Plutonium-237 and Americium-241,
W77-10397 1021 5B

Some Investigations into the Behavior of Plutonium in the Marine Environment,
W77-10398 1021 5C

Plutonium in the Aquatic Environment Around the Rocky Flats Facility,
W77-10399 1021 5B

The Behaviour of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, I. Biological Transport, Seasonal Cycling, and Residence Times in the Water Column,
W77-10400 1021 5B

The Behavior of Plutonium and Other Long-Lived Radionuclides in Lake Michigan, II. Patterns of Deposition in the Sediments,
W77-10401 1021 5B

Consequences du Deplacement des Sediments sur la Dispersion des Radionucleides, (The Effect of Sediment Displacement on the Dispersal of Radionuclides),
W77-10402 1021 5B

Behavior of Discharged Radionuclides from Fuel Reprocessing Operations in the Aquatic Environment of Bombay Harbour Bay,
W77-10403 1021 5C

Concentration of Radioactive Cobalt by Seaweeds in the Food Chain,
W77-10404 1021 5B

Transport and Accumulation of Radiocobalt in the Marine Sediment of Urazoko Bay,
W77-10405 1021 5B

Uptake of Cobalt-60 From Sea Water and from Labelled Food By the Common Shrimp Crangon Crangon (L),
W77-10407 1021 5C

Health Criteria for Estimating Acceptable Contamination of Coastal Waters By Radionuclides,
W77-10408 1021 5B

Dose Estimation and Prediction of Radiation Effects on Aquatic Biota Resulting from Radioactive Releases from the Nuclear Fuel Cycle,
W77-10409 1021 5C

Conventional and Radioactive Pollutants of Inland Waters in Austria,
W77-10410 1021 5B

Assessment of Doses in the Environment for Liquid Releases from Nuclear Power Reactors,
W77-10411 1021 5C

An Analysis of Criteria for Determining the Extent of Permissible Radioactive Waste Disposal from Nuclear Power Stations into River Systems,
W77-10413 1021 5C

A System of Radiation Monitoring, and Methods and Equipment for Measuring Water of Low Specific Activity,
W77-10414 1021 5B

Radiological Effects of a Nuclear Power Plant on a River System, as Demonstrated by the Gundremmingen BWR on the Danube,
W77-10415 1021 5C

The Fish/Water Accumulation Factor-An Important Parameter for Determining the Environmental Capacity of Surface Waters,
W77-10416 1021 5B

Release Pathways for Deep Seabed Disposal of Radioactive Wastes,
W77-10417 1021 5B

Brazil--A Market for British Effluent and Water Treatment Plant Manufacturers,
W77-10603 1021 5D

Wastewater Management in the Solid Wood and Board Products Industries: A Review,
W77-10690 1021 5D

Determination of the Degree of Accumulation of Residual Liquor Components During Recycling of the Liquor (Opredelenie stepeni nakopleniya komponentov posledrozhzhevoi brazhki pri vozvrate ee v proizvodstvennyi tsikl),
W77-10697 1021 3E

Lead Distribution in the Cape Fear River Estuary,
W77-10772 1021 5B

Investigation of the Behavior of Trace Elements in Ocean Water by the Desorption Method,
W77-10889 1022 5B

Coastal Zone Pollution in Indonesia with Emphasis on Oil. A Reconnaissance Survey.
W77-10907 1022 5B

Time-Stressed Coastal Environments: Assessment and Future Action.
W77-11022 1022 5G

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Containment Spoiling in Central Long Island Sound: An Example of Short-Term Biological Enhancement,
W77-11025 1022 5G

Dredging and Its Impacts on Upper Chesapeake Bay: Some Observations,
W77-11026 1022 5G

Report of a Workshop on the Impact of Thermal Power Plant Cooling Systems on Aquatic Environments, Vol. I. Working Group Results.
W77-11123 1022 5C

Further Investigations of Plutonium in Aquatic Biota of the Great Miami River Watershed Including the Canal and Ponds in Miamisburg, Ohio,
W77-11133 1022 5C

Dispersal of Plutonium from an Effluent Pulse in the Great Miami River,
W77-11134 1022 5C

Preliminary Investigations of the Chemical Speciation of Plutonium in Natural Waters of the Northeastern and Southeastern United States,
W77-11135 1022 5C

The Association of Transuranic Elements with Lacustrine Sediments,
W77-11136 1022 5C

Effect of Arsenic and Cadmium on the Growth Rate and Nutrient Utilization Rates of Asterionella Formosa,
W77-11144 1022 5C

Thermal Discharge Residence by Lake Michigan Salmonids,
W77-11145 1022 5C

Plume Residence and Toxic Material Accumulation,
W77-11146 1022 5C

Coal Mine Water Pollution: An Acid Problem with Murky Solutions,
W77-11163 1022 5G

Summary of Experimental Results: Controlled Ecosystem Pollution Experiments,
W77-11326 1022 5C

Effect of Waste Discharge Regulations on Real Property Development,
W77-11462 1022 5G

Ocean Dumping,
W77-11469 1022 5G

Cold Shock to Aquatic Organisms: Guidance for Power-Plant Siting, Design, and Operation,
W77-11502 1023 5C

Decontaminating Lake Superior of Asbestos Fibers,
W77-11539 1023 5D

Cyanide Mobility in Soils,
W77-11619 1023 5B

New York Bight Project. Project Development Plan and Technical Development Plan.
W77-11661 1023 5B

Observation on the Hydrology of the River Kham,
W77-11769 1023 5B

Pollutant Removal from Coal-Ash Basin Effluent,
W77-11784 1023 5A

Remote Sensing of Oil Slicks With Microwave Radiometer,
W77-11891 1023 5A

A Shipboard Oil-in-Water Content Monitor Based on Oil Fluorescence,
W77-11905 1023 5A

EPA Will Use KSU Model as Waste Systems Tool.
W77-11978 1023 5G

Meeting Water-Recycle Requirements at a Western Zero-Discharge Plant,
W77-12006 1023 5D

Mass Spectrometric Analysis of Product Water from Coal Gasification,
W77-12328 1024 5A

Quality of Urban Freeway Storm Water,
W77-12500 1024 5B

An Analysis of the Management Information System for U.S. Coast Guard Aircraft Pollution Patrols,
W77-12562 1024 5A

Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

Nitrate-N Percolation Through Irrigated Sandy Soil as Affected by Water Management,
W77-12830 1024 5B

Animal Feeding Factories and the Environment: A Summary of Feedlot Pollution, Federal Controls, and Oklahoma Law,
W77-12888 1024 5G

The MIT/Marine Industry Collegium Opportunity Brief No. 9. Oil Spills: Problems and Opportunities.
W77-12917 1024 5G

Environmental Assessment of the Alaskan Continental Shelf. Annual Technical Summary Report.
W77-12963 1024 6G

WATER POLLUTION ABATEMENT

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

WATER POLLUTION BIOCONTROL

Biological Control of Water Pollution.
W77-11690 1023 5G

WATER POLLUTION CONTROL

Closed Loop Hierarchical Control for River Pollution,
W77-00051 1001 5G

OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

Optimization of State Water Quality Monitoring Systems,
W77-00120 1001 5G

The Use of Stochastic Models in the Interpretation of HIstorical Data From Sewage Treatment Plants,
W77-00121 1001 5D

Process for Removing Dispersed Matter from Water,
W77-00684 1002 5G

Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Water Pollution Investigation: Maumee River and Toledo Area,
W77-00723 1002 5C

Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

Study on Treatment of Tanker Discharged Oily Water with Improved Type Slop Tank (Kairyogata suropu tanku ni yoru tanka haisui shori no kankyu),
W77-00750 1002 5G

Water Pollution Investigation: Black River of New York.
W77-00929 1002 5B

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

Paying to Pollute.
W77-00972 1002 5G

Protection of Public Water Supply.
W77-00991 1002 6E

Recent Developments in the Law of the Sea: A Synopsis,
W77-01075 1003 6E

Burning Wastes at Sea--If the EPA Approves,
W77-01082 1003 5G

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Water Pollution Prohibited.
W77-01121 1003 6E

Polluter Discriminant Analysis,
W77-01166 1003 5G

Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

The Modelling and Control of Pollution in a River System,
W77-01175 1003 5B

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Coal and the Environment, Abstract Series, Mine Drainage Bibliography, 1910-1976.
W77-01192 1003 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Oil Collection Barge,
W77-01204 1003 5G

Apparatus for Collecting Oil Slick from a Body of Water,
W77-01211 1003 5G

Floating Skimmer for Cleaning the Surface of a Body of Liquid, Method and Apparatus,
W77-01228 1003 5G

Oil Fence,
W77-01230 1003 5G

Leaf Analysis Proves Useful in Increasing Efficiency of Nitrogen Fertilization of Oranges and Reducing Nitrate Pollution Potential,
W77-01434 1003 5G

Control of Water Pollution - A Hidden Resource, (Beheer oor waterbesoedeling - 'n verborge hulpbron),
W77-01489 1003 5G

Rules and Regulations: Confined Feeding Operations.
W77-01512 1003 5G

Pollution Abatement in Wisconsin, Historical Development and Present Status,
W77-01524 1003 5G

Modern Methods of Purifying Pulp and Paper Mill Effluents (Sovremennye metody ochistki stochnykh vod predpriatii tsellyulozno-bumazhnoi promyshlennosti),
W77-01657 1004 5D

Bleach Modifications to Reduce Pollutants,
W77-01663 1004 5D

Use of Chlorine Dioxide-Alkali for High-Yield Pulping,
W77-01664 1004 5D

Containment Boom,
W77-01721 1004 5G

Water Pollution Monitor,
W77-01722 1004 5A

Process for Recovering Usable Olive-Processing Liquor from Olive-Processing Waste Solution,
W77-01741 1004 5D

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Oil Boom and Method of Skimming Floating Oil from the Surface of a Body of Water,
W77-01759 1004 5G

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Pollution of the River Tyne Estuary--The Use of Mathematical Models,
W77-01889 1004 5B

Southeastern Forests and the Problem of Non-Point Sources of Water Pollution,
W77-01952 1004 5B

Water Quality Analysis, Upper Mississippi River Basin.
W77-01953 1004 5G

Strategic Environmental Assessment System, Residuals Forecasting, An Analysis of Results,
W77-01958 1004 5G

Water Pollution Control Act of 1972, Institutional Assessment, Digest of Legal Issues.
W77-01974 1004 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Santee River Basin.
W77-01976 1004 5G

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

State Consideration of the Rivers Zeta and Moraca Based on the Chemical Control, (In Serbo-Croatiau),
W77-02266 1005 5G

Measures for the Protection of the Rivers Zeta and Moraca, (In Serbo-Croatiiau),
W77-02267 1005 5G

Estuarine Pollution Control: Objectives and Priorities,
W77-02343 1005 5G

Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

Economic Analysis of Effluent Guidelines: Cane Sugar Refining,
W77-02414 1005 5D

Economic Analysis of Effluent Guidelines: The Textiles, Friction and Sealing Materials Segment of the Asbestos Manufacturing Industry,
W77-02422 1005 5G

Economic Analysis of Effluent Guidelines for Seafood Processing Industry: (Fish Meal, Salmon, Bottom Fish, Clams, Oysters, Sardines, Scallops, Herring, Abalone),
W77-02433 1005 5D

Economic Analysis of Effluent Guidelines: Beet Sugar Industry,
W77-02434 1005 5D

Water Hyacinths and Alligator Weeds for Removal of Lead and Mercury from Polluted Waters,
W77-02450 1005 5G

Some Internal Measures for Reducing Effluent Load, for Example, in a Calcium Bisulfite Mill (Einige innerbetriebliche Massnahmen zur Verminderung der Vorfluterbelastung, dargestellt am Beispiel einer Calciumbisulfitfabrik),
W77-02576 1006 5D

Environmental Outlook: Where We Stand, What's Ahead,
W77-02580 1006 5G

Possibility of Introducing Waste-Free Technology in the Pulp and Paper Industry (Vozmozhnosti vnedreniya bezotkhodnoi tekhnologii v otrasli),
W77-02583 1006 3E

Pollution Control in Indian Steel Industry,
W77-02605 1006 5B

Phosphorus Removal within Existing Wastewater Treatment Facilities,
W77-02748 1006 5D

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Colorado Water Quality Control Act.
W77-03490 1007 6E

Village of Lombard V State Pollution Control Board (Pollution Control Board Without Authority to Impose Regionalization Upon Local Governmental Bodies).
W77-03511 1007 6E

Virginia State Program for Control of Discharge of Pollutants to Navigable Waters; Approval.
W77-03527 1007 5G

The Hard Job of Saving Lake Erie.
W77-03534 1007 5G

The Muddy Road to Clean Water,
W77-03587 1007 5G

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

Nestle and Pollution Control,
W77-03607 1008 5D

In-Plant, Outside Pollution Evils, Energy Saving Top AATCC Concerns.
W77-03620 1008 5G

Water Pollution Control Administration, A Memorandum Report on a Reconnaissance Study.
W77-03684 1008 5G

Klamath River Basin Compact.
W77-03705 1008 6E

A Survey of Pulp and Paper Industry Environmental Protection Expenditures and Operating Costs - 1975,
W77-03807 1008 5D

Great Lakes (Paper Co.) Pioneers Tomorrow's Technology,
W77-03809 1008 5D

Method and an Apparatus for Collecting Substances and Objects on a Liquid Surface,
W77-03868 1008 5G

Composition for Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W77-03870 1008 5G

A Zero-Relative-Velocity Belt Skimmer,
W77-03899 1008 5C

Development of Fast Current Oil Response System,
W77-03904 1008 5G

Tests of Coast Guard Developed High Seas Oil Recovery Systems at EPA Ohmsett,
W77-03905 1008 5G

The Hydrodynamics of Porous Barrier Oil Recovery Systems,
W77-03906 1008 5G

Modeling and Information Handling in Environmental Science,
W77-03926 1008 5G

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Physical and Economic Parameters for Planning Regional Wastewater Treatment Systems,
W77-04010 1008 5D

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Nitrogen and Phosphorous Removal from Lakes by Fish Harvest,
W77-04035 1008 5G

The Geologic Aspects in the Planning and Implementation of the Pennsylvania Solid Waste Management Act, Act 241,
W77-04125 1009 5G

The Extent to Which Marine Transportation Within the Economic Zone Will Be Affected by Enforcement of the Proposed Pollution Controls,
W77-04194 1009 5G

A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 29 Insulation Fiberglass.
W77-04300 1009 5G

Water Pollution Abatement Technology, Capabilities and Costs, Selected Industries: Category 16 Paint and Ink Formulation and Printing.
W77-04301 1009 5G

Water Pollution Control Act of 1972, Economic Impacts, Incidence of Costs, Distribution of Water Pollution Control Costs.
W77-04306 1009 5G

Department of Ecology,
W77-04358 1009 6E

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

Oil Pollution Prevention.
W77-04367 1009 5G

'Adjacent States' Responsibilities in Outer Continental Shelf Activities,
W77-04489 1009 5G

Application of Mathematical Models to the Study, Monitoring and Management of the North Sea,
W77-04498 1009 6G

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

How Should Industry View Pollution Charges,
W77-04557 1009 5G

Enforcement Under the Illinois Pollution Law,
W77-04567 1009 5G

EPA Sets Final Rules on Feedlot Permits.
W77-04603 1010 5G

New EPA Proposals for Feedlot Runoff Take Reasonable Approach,
W77-04604 1010 5G

The Swedish Experience in Connection with Environment Protection at Animal Production Sites,
W77-04614 1010 5G

How to Control Biological Waste-Treatment Processes,
W77-04722 1010 5D

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

NSSC Recovery Process Eliminates Five-Day BOD 5 Load and Recovers Chemicals,
W77-04826 1010 5D

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Environmental Concerns of Wood-Processing Industries (In Austria),
W77-04829 1010 5G

A Simple Diagnostic Model to Determine the Feasibility of Salinity Control of Eurasian Watermilfoil,
W77-04848 1010 5G

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

Apparatus and Method of Removing Debris Floating on a Body of Water,
W77-04953 1010 5G

Apparatus for Controlling Marine Fouling of Salt Water Coolant Heat Exchangers, Piping Systems, and the Like,
W77-04956 1010 8G

Apparatus for Purifying Polluted Water,
W77-04966 1010 5D

Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

Surface-Water Quality Management Models,
W77-05014 1010 5G

Farmers, Feedlots and Federalism: The Impact of the 1972 Federal Water Pollution and Control Act Amendments on Agriculture,
W77-05047 1010 5G

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

Using Linear Programming to Design Oil Pollution Detection Schedules,
W77-05250 1011 5G

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

The Lycoming County, Pennsylvania, Sanitary Landfill: State-of-the-Art in Ground-Water Protection,
W77-05363 1011 5G

Grain Shape and Size Distribution Effects in Coastal Models,
W77-05389 1011 2L

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Recovery of Chromates by Membrane,
W77-05661 1012 5D

Treatment of Waste Rolling Oil,
W77-05663 1012 5D

Method and Apparatus for Clarifying Contaminated Liquids,
W77-05664 1012 5D

Oil Spill Apparatus,
W77-05667 1012 5G

Floating Device for Removing Refuse Situated on and Under a Water Surface,
W77-05668 1012 5G

Introduction and Overview,
W77-05669 1012 6B

Biological Possibilities for Waste Water Purification (Consideratii asupra posibilitatilor biologice de purificare a apelor reziduale),
W77-05685 1012 5G

Purification of Waste Waters from Wet Barking (Rening av avloppsvatten fran vatbarkning),
W77-05698 1012 5D

The Paper Industry's Enviroeconomics,
W77-05700 1012 5D

Environmental Protection Costs in the Swedish Pulp and Paper Industry (Miljovardskostnader i svensk massa-och pappersindustri),
W77-05701 1012 5D

Proceedings of Seminars on Water Pollution Abatement Technology in the Pulp and Paper Industry.
W77-05708 1012 5D

Specialized Internal Practices (For Pollution Abatement),
W77-05715 1012 5D

The Response Equation Method: A New Role for Simulation of Environmental Systems,
W77-05978 1012 5B

Models in Biological Wastewater Treatment: Objectives, Results, Applicability,
W77-05980 1012 5D

Pollution Fees are for Real in France,
W77-06046 1012 5G

Legal Aspects of Water Pollution Control,
W77-06050 1012 5G

Australia Makes Impressive Progress in Pollution Abatement.
W77-06149 1013 5G

Benefits of Spreading Whey on Agricultural Land,
W77-06215 1013 5D

Inorganic Pollution from Forests and Rangelands,
W77-06239 1013 5B

London's Stormwater Problem,
W77-06297 1013 5B

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Water Pollution from Industrial Sources in Sweden and Recent Trends to Prevent It,
W77-06383 1013 5G

Attenuation of Pollutants in Municipal Landfill Leachate by Clay Minerals: Part 1-Column Leaching and Field Verification,
W77-06395 1013 5B

Nonpoint Sources and Planning for Water Pollution Control,
W77-06461 1013 5B

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

Polluters' Profits and Political Response: Direct Control Versus Taxes: Comments and Reply,
W77-06700 1014 5G

Effluent Charges and Pollution Control: A Case Study,
W77-06701 1014 5G

Two-Goal Regional Environmental Policy: The Case of the Santa Ana River Basin,
W77-06707 1014 5G

The Legal Responsibility of Water Well Drillers,
W77-06862 1014 5G

What's New in Landfill Liners.
W77-07051 1014 5G

United States V Ashland Oil and Transportation Company (Use of the Word 'Navigable Waters' in the Federal Water Pollution Control Act Amendments of 1972 Held to Mean 'Waters of the United States').
W77-07273 1015 6E

Proceedings, Technology Transfer Seminar on High Quality Effluents,
W77-07330 1015 5D

Hydrology,
W77-07494 1015 2A

Network Approach to Optimal Wastewater Treatment System Design,
W77-07531 1015 5D

Glossary of Water Resource Terms,
W77-07613 1016 10C

Characteristics of the Areas in Which Fast Current Oil Control is Needed,
W77-07741 1016 5G

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

German Pollution Control,
W77-07863 1016 5G

Survey Predicts 33 Percent Municipal Compliance with 1977 Deadline,
W77-07877 1016 5G

Recreational Use of Small Streams in Wisconsin,
W77-08008 1016 5G

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Method of Filtering Liquids Containing Dissolved Carbon Dioxide,
W77-08013 1016 5D

The Problem of the Sanitary Protection of the Waters of Ports and Coastal Zones of the Black Sea Basin, (In Russian),
W77-08014 1016 5G

Oil Separator Device,
W77-08015 1016 5G

Sewage Sludge Treatment System,
W77-08030 1016 5D

States Need Freedom to Innovate (Comment on PL 92-500).
W77-08119 1017 6E

Environmental Protection Through the Common Law,
W77-08133 1017 6G

Compliance with the Provisions of the Federal Water Pollution Control Act as Amended in 1972.
W77-08153 1017 6E

Method of Dispersing Oil in Water,
W77-08260 1017 5G

Environmental Law-Application of the Refuse Act of 1899 to Continual Industrial Discharges Is Upheld Without Formalized Permit Procedures,
W77-08382 1017 5G

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

Water Resources Commission V. Connecticut Sand and Stone Corporation (Judicial Review of Administrative Factual Determination).
W77-08404 1017 6E

Control of Non-Point Sources of Water Pollution Within an Ecological Framework: The Case of the Tri-County Region, Michigan,
W77-08625 1018 6E

Advanced Waste Treatment Design Protects Lake Alton,
W77-08631 1018 5G

New Plymouth Sewerage Scheme,
W77-08632 1018 5D

Role of Nitrogen in Activated Sludge Process,
W77-08869 1018 5D

Barrier for Water Carried Pollutants,
W77-08878 1018 5G

Fending Device for Oil Containment Boom,
W77-08892 1018 5G

Skimmer Fence,
W77-08893 1018 5G

Flocculant Use on Tankers,
W77-08906 1018 5G

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

Analytical Models for the Evaluation of Supplemental Aeration in Texas Estuaries,
W77-08917 1018 5B

Ocean Dumping in the United States - 1975, Third Annual Report of the Environmental Protection Agency on the Administration of Title I of the Marine Protection, Research, and Sanctuaries Act of 1972, as Amended.
W77-08919 1018 5B

Lake-Shoreland Management Programs: Selected Papers,
W77-08924 1018 2H

A Consultant's View of PL 92-500.
W77-08958 1018 5G

When You Think About Polluted Waters, Think About Your Streams and Rivers.
W77-08960 1018 5G

Changes Urged at NCWQ Hearings,
W77-08967 1018 6E

Say Goodbye to Ocean Dumping,
W77-08969 1018 5G

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Storage of Low-Level Radioactive Wastes in the Ground: Hydrogeologic and Hydrochemical Factors,
W77-09086 1018 5E

Optimal Artificial Aeration Design in Polluted Streams Receiving Thermal Discharge,
W77-09146 1019 5G

Technology and Economics of Packed Column Water Oxygenation in Stream Aeration,
W77-09149 1019 5G

A Review of EPA's Great Lakes Modeling Program,
W77-09157 1019 5B

Planning Implications of Dissolved Oxxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

A Water Residuals Inventory for National Policy Analysis,
W77-09164 1019 5G

Cost-Effective Analysis of Waste Load Allocations,
W77-09167 1019 5B

Stream Modeling and Waste Load Allocation,
W77-09169 1019 5B

Radionuclide Transport in the Great Lakes,
W77-09175 1019 5B

Dispersion Model for an Instantaneous Source of Pollution in Natural Streams and Its Applicability to the Big Blue River (Nebraska),
W77-09183 1019 5B

Water Pollution Modeling in the Detroit Metropolitan Area,
W77-09187 1019 5B

Generalized Method for Evaluating Urban Storm Water Quality Management Storage/Treatment Alternatives,
W77-09188 1019 5D

Application of Storm and SWMM for Assessment of Urban Drainage Alternatives in Canada,
W77-09199 1019 5B

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

Assembly and Testing of the Mark I Shipboard Separator System,
W77-09234 1019 5G

Analysis of Risk in the Water Transportation of Hazardous Materials.
W77-09235 1019 5G

The Evaluation of the Test Procedure for Hazardous Binary Combinations of Materials in Marine Transportation,
W77-09236 1019 5G

At Sea Testing of a High Sea Oil Recovery System,
W77-09237 1019 5G

Oil Transportation by Tankers: An Analysis of Marine Pollution and Safety Measures.
W77-09238 1019 5G

Alternative Methods of Phenol Wastewater Control,
W77-09419 1019 5D

Economic Assessment of Proposed Toxic Pollutant Effluent Standards for Manufacturers and Formulators of Aldrin/Dieldrin, DDT, Endrin and Toxaphene.
W77-09478 1019 5G

New Opportunities for State Participation in the Control of Radioactive Pollution,
W77-09539 1019 5G

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

How to Reduce Water and Raw Material Consumption in Papermaking (Come ridurre i consumi d'acqua e di materie prime in cartiera),
W77-09738 1020 3E

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Method for Detecting Oil in Water,
W77-09813 1020 5A

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Cross Canada Report,
W77-09923 1020 5G

Evaluation of Utility Equipment for Harbor Oil Spill Removal/Recovery Systems,
W77-10031 1020 5G

Simulation of the Sedimentology of Sediment Detention Basins,
W77-10185 1021 5G

Controlling Water Pollution,
W77-10201 1021 5G

Optimal Design of Mechanical Aeration Systems for Thermally and Organically Polluted Streams,
W77-10293 1021 5G

Study on Economic and Policy Instruments for Water Management. Water Management in Japan.
W77-10360 1021 6E

An Ecosystem Approach to the Planning of Water Pollution Control,
W77-10367 1021 5G

Approach to Liquid Effluent Control in a Nitrogenous Fertilizer Plant,
W77-10370 1021 5G

Ground Waters: Are They Beneath the Reach of the Federal Water Pollution Control Act Amendments,
W77-10458 1021 5G

Wastewater Management Program, Jamaica Bay, New York, Volume I: Summary Report,
W77-10533 1021 5D

Treatment of Effluents: Modern Methods of Sewage Disposal,
W77-10550 1021 5E

Electrobiochemical Neutralization of Acid Mine Water,
W77-10569 1021 5B

Standardization for Water Pollution Control Works,
W77-10610 1021 5D

Cleansing the River Tyne,
W77-10613 1021 5D

Alum Sludge Disposal - Problems and Success,
W77-10616 1021 5E

Multifunctional Approach to Pollution Prevention,
W77-10638 1021 5G

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

A Waste Control Program for a River with Highly Variable Concentration of Conservative Substance,
W77-10813 1022 5G

Optimizing a Pressurized Pipe-Line Network Using a New Method,
W77-10829 1022 5D

Systems Analysis, (Literature Review),
W77-10832 1022 6A

Optimal Storage Control in a Combined Sewer System,
W77-10846 1022 5D

Redesign, Fabrication and Test of a 1000-GPM High Seas Oil Recovery System and Design Only of a 500-GPM High Seas Oil Recovery System,
W77-10879 1022 5G

Evaluation of a Passive Microwave Technique for the Measurement of Oil Film Thickness in a Test Tank Environment,
W77-10880 1022 5A

Marine Environmental Protection Program: An Analysis of Mission Performance.
W77-10882 1022 5G

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Acoustic Method for Detecting Leaks from Submerged Pipelines,
W77-10995 1022 5G

Oil Absorbent Material and Method of Oil Removal,
W77-11002 1022 5G

Liquid Treating Apparatus,
W77-11006 1022 5D

Apparatus for Removal of Oil Films from Water,
W77-11007 1022 5G

Methods of Recovering Wool Grease from Spent Wool Scouring Liquor,
W77-11013 1022 5D

Regional Water Quality Control,
W77-11162 1022 6E

Pollution Prevention--Vessel and Oil Transfer Facilities.
W77-11461 1022 5G

Chemical Technology and Economics in Environmental Perspectives: Task II. Removal of Boron from Wastewater,
W77-11666 1023 5D

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

Secondary Sewage Treatment Versus Ocean Outfalls: An Assessment,
W77-11766 1023 5E

VLCC 'METULA' Oil Spill,
W77-11889 1023 5G

Tanker Sludge Removal and Disposal,
W77-11911 1023 5E

Lightweight End Connectors for Pollution Containment Boom,
W77-11925 1023 5G

Water Usage in Paper and Board Mills,
W77-12344 1024 3E

Water Quality Management--The Management Information Requirement,
W77-12394 1024 5G

Water Quality Management - Quality Planning,
W77-12401 1024 5G

The Technical-Economic Model of Water Quality in the Sajo River (A sajo vizminosegi muszaki-kozgazdasagi modellje),
W77-12413 1024 5G

Land Use and Water Quality in the Flathead Drainage,
W77-12582 1024 5B

Oil Pick Up Device,
W77-12691 1024 5G

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Pick-Up Element for Oily Contaminants,
W77-12707 1024 5G

Method of Removing Oil from Water Using Rice Hulls,
W77-12708 1024 5G

A Note on the Use of Economic Incentives in Water Pollution Abatement,
W77-12718 1024 5G

Ocean Dumping Regulation: An Overview,
W77-12885 1024 5G

City of New Haven V Train (City Challenge to Agency Action Regarding Siting of Secondary Sewage Treatment Facility).
W77-12906 1024 6E

Environmental Impact on Property Values Along New York's Lake Erie Coastline,
W77-12960 1024 5G

Status of Alternative Systems for Septic Wastes Disposal in North Carolina,
W77-12962 1024 5E

WATER POLLUTION CONTROL ACT OF 1972

Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

WATER POLLUTION CONTROL FEDERATION

Research and the Quest for Clean Water,
W77-07243 1015 5G

Many Changes Urged for PL 92-500,
W77-08950 1018 5G

PL 92-500: A Dose of Chaos,
W77-08959 1018 5G

Changes Urged at NCWQ Hearings,
W77-08967 1018 6E

Water Pollution Control Federation Speakers Zero in On Pollution Control Law,
W77-09546 1019 5G

WATER POLLUTION COSTS

A Comprehensive Systems Engineering Study of the True Economic Value of Unpolluted Water Versus Varying Degrees of Polluted Water,
W77-02220 1005 5G

WATER POLLUTION EFFECT

Phytoplankton and Primary Productivity in the Northeast Gulf of Alaska,
W77-01849 1004 6G

WATER POLLUTION EFFECTS

Causes and Alternative Solutions to the Water Quality Problems of Big Stone Lake, Western Minnesota-Northeastern South Dakota,
W77-00047 1001 5C

Effects of Oil on the Reproduction of the Amphipod Gammarus Oceanicus,
W77-00188 1001 5C

The Benthic Ecology of Loch Linnhe and Loch Eil, A Sea-Loch System on the West Coast of Scotland. IV. Changes in the Benthic Fauna Attributable to Organic Enrichment,
W77-00196 1001 5C

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

A Reinvestigation of Southern California Rocky Intertidal Beaches Three and One-Half Years after the 1969 Santa Barbara Oil Spill: A Preliminary Report,
W77-00267 1001 5C

The Response of Macroinvertebrates to Gasoline Pollution in a Mountain Stream,
W77-00268 1001 5C

Terrestrial Oil Spills in Alaska: Environmental Effects and Recovery,
W77-00269 1001 5C

A Study of the Effects of the San Francisco Oil Spill on Marine Organisms,
W77-00270 1001 5C

Interagency Investigations of a Persistent Oil Spill on the Washington Coast,
W77-00271 1001 5C

Chromosome Mutagenesis in Developing Mackerel Eggs Sampled from the New York Bight,
W77-00274 1001 5C

Effects on Commercial Fishing of Petroleum Development off the Northeastern United States,
W77-00280 1001 5C

The Delineation and Growth of a Sludge Field,
W77-00603 1002 5C

Water Temperature Simulation,
W77-00616 1002 5B

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

The Effect of Gravel Dredging on Reservoir Primary Production, Invertebrate Production, and Mussel Production.
W77-00895 1002 5C

Environmental Assessment of the Alaskan Continental Shelf. Volume 8, Effects of Contaminants.
W77-00908 1002 6G

Man's Effect on the Quality of Our Water,
W77-00974 1002 5C

Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay,
W77-01061 1002 5C

Mixed Function Monooxygenase of Fish as an Indicator of Pollution of Aquatic Environment by Industrial Effluent,
W77-01065 1002 5C

The Effect of Arsenic on Embrional Development of Rainbow Trout (Salmo Gairdneri, Rich),
W77-01258 1003 5C

Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

Shell Disease in Crabs and Lobsters from New York Bight,
W77-01500 1003 5C

Artificial Islands: Information Needs and Impact Criteria,
W77-01501 1003 6G

Hygienic Study of the Toxic Properties of Methanol-Containing Reclaimed Water, (In Russian),
W77-01602 1004 5C

Responses of Phytoplankton to Renewed Solar Radiation in a Stratified Inlet,
W77-01659 1004 5C

Beneficial Use of Thermal Effluent in Lobster Culture,
W77-01707 1004 5C

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Morbidity and Mortality of Marine Mammals - Bering Sea,
W77-01830 1004 6G

Trophic Relationships Among Ice Inhabiting Phocid Seals,
W77-01834 1004 6G

Assessment of the Distribution and Abundance of Sea Otters Along the Kenai Peninsula, Kamishak Bay and the Kodiak Archipelago,
W77-01835 1004 6G

Population Assessment, Ecology and Trophic Relationships of Steller Sea Lions in the Gulf of Alaska,
W77-01837 1004 6G

The Relationships of Marine Mammal Distributions, Densities and Activities to Sea Ice Conditions,
W77-01838 1004 6G

Environmental Assessment of the Bering Sea: Benthic Biology,
W77-01839 1004 6G

The Distribution, Abundance, Diversity, and Productivity of the Western Beaufort Sea Benthos,
W77-01840 1004 6G

Outer Continental Shelf Assessment Project. Herring Spawning Survey - Southern Bering Sea,
W77-01842 1004 6G

Outer Continental Shelf Assessment Project. Razor Clam Habitat Survey - Gulf of Alaska,
W77-01843 1004 6G

A Description and Numerical Analysis of the Factors Affecting the Processes of Production in the Gulf of Alaska,
W77-01844 1004 6G

Review of Literature and Historical Data on Non-Salmonid Pelagic Fisheries Resources of the Eastern Bering Sea and Gulf of Alaska,
W77-01845 1004 6G

Baseline Characterization, Littoral Biota, Gulf of Alaska and Bering Sea,
W77-01846 1004 6G

Plankton of the Gulf of Alaska - Ichthyoplankton,
W77-01847 1004 6G

Initial Zooplankton Investigations,
W77-01848 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Phytoplankton Studies - Bering Sea,
W77-01851 1004 6G

Baseline Studies of Demersal Resources of the Northern Gulf of Alaska Shelf and Slope: An Historical Preview,
W77-01852 1004 6G

Baseline Studies of Demersal Resources of the Eastern Bering Sea Shelf and Slope,
W77-01853 1004 6G

Beaufort Sea Estuarine Fishery Study,
W77-01854 1004 6G

The Distribution, Abundance, Diversity, and Productivity of Benthic Organisms in the Gulf of Alaska,
W77-01855 1004 6G

Summarization of Existing Literature and Unpublished Data on the Distribution, Abundance and Productivity of Benthic Organisms of the Gulf of Alaska and Bering Sea,
W77-01856 1004 6G

Food and Feeding Relationships in the Benthic and Demersal Fishes of the Gulf of Alaska and Bering Sea,
W77-01857 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Bering Sea and Gulf of Alaska,
W77-01858 1004 6G

Preparation of Illustrated Keys to Skeletal Remains and Otoliths of Forage Fishes - Beaufort Sea,
W77-01859 1004 6G

Literature Search on the Density and Distribution of Fishes of the Beaufort Sea,
W77-01860 1004 6G

Alaska Marine Ichthyoplankton Key,
W77-01861 1004 6G

Littoral Survey of the Beaufort Sea,
W77-01862 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

The Physiological Effect of Acute and Chronic Exposure to Hydrocarbons of Petroleum on the Near-Shore Fishes of the Bering Sea,
W77-01864 1004 5C

Physiological Impact of Oil on Pinnipeds,
W77-01865 1004 5C

Acute and Chronic Toxicity, Uptake and Depuration, and Sublethal Metabolic Response of Alaskan Marine Organisms to Petroleum Hydrocarbons,
W77-01866 1004 5C

Response of the Clam, Macoma balthica (Linnaeus), Exposed to Prudhoe Bay Crude Oil as Unmixed Oil, Water-Soluble Fraction, and Sediment-Adsorbed Fraction in the Laboratory,
W77-01867 1004 5C

Effect of Petroleum Hydrocarbons on Breathing and Coughing Rates, and Hydrocarbon Uptake-Depuration in Pink Salmon Fry,
W77-01868 1004 5C

Sublethal Effects as Reflected by Morphological, Chemical, Physiological and Behavioral Indices,
W77-01869 1004 5C

Identification of Major Processes in Biotransformations of Petroleum Hydrocarbons and Trace Metals,
W77-01870 1004 5C

Assessment of Available Literature on Effects of Oil Pollution on Biota in Arctic and Subarctic Waters,
W77-01871 1004 5C

Acute Effects - Pacific Herring Roe in the Gulf of Alaska,
W77-01872 1004 5C

Acute and Chronic Toxicity of Seawater Extracts of Alaskan Crude Oil to Zoeae of the Dungeness Crab, Cancer Magister Dana,
W77-01873 1004 5C

Sublethal Effects - Effects on Sea Grass,
W77-01874 1004 5C

The Effects of Water Pollution from Non-Point Sources as It Relates to the Health of Man,
W77-02058 1004 5G

Occurrence of Kerosene-Like Hydrocarbons in the Bream, Mylio Australis Gunther,
W77-02212 1005 5C

Analysis of Pollution from Marine Engines and Effects on the Environment. Summary Report.
W77-02449 1005 5C

Toxicity, Uptake and Survey Studies of Boron in the Marine Environment,
W77-02565 1005 5C

Progress in Sublethal Effect Studies with Kraft Pulp Mill Effluent and Salmonids,
W77-02573 1005 5C

Pollution Aspects of Catfish Production - Review and Projections,
W77-02626 1006 5C

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

Proceedings of the Twenty-eighth Annual Gulf and Caribbean Fisheries Institute.
W77-02660 1006 5C

The Toxicity of Selected Chemicals Used in Power Generating Stations to Hawaiian Fishes,
W77-02666 1006 5C

The Metula Oil Spill,
W77-02679 1006 5C

Some Environmental and Toxicological Aspects of Tri-Aryl Phosphate Synthetic Oil,
W77-02724 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Biochemical Effects of Methylmercuric Chloride, Cadmium Chloride, and Lead Nitrate on Embryos and Alevins of the Brook Trout, Salvelinus Fontinalis,
W77-02732 1006 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-02820 1006 5C

Study of Sanitary Problems in Connection with Inter-Basin Transfer of River Runoff, (In Russian),
W77-02905 1006 5C

On the Living Environment for Fish in the Coastal Waters Surrounding the New and Old Volcanic Island 'Nisi-No-Sima', (In Japanese),
W77-02917 1006 5C

Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

Standard Test Fish Development. Part I. Fat-Head Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and their Reaction to Potential Reference Toxicants,
W77-03002 1006 5A

Standard Test Fish Development. Part II: Chronic Toxicity of Guthion to the Fathead Minnow (Pimephales Promelas Refinesque),
W77-03003 1006 5A

Temperature Effects of Crude Oil in the Upper Intertidal Zone,
W77-03004 1006 5C

Biotransformation and Chemical Form of Mercury in Plants,
W77-03006 1006 5C

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W77-03017 1006 5C

Methyl Mercury and the Metabolic Responses of Brain Tissue,
W77-03018 1006 5C

Sublethal Effect of 5-Chlorouracil on Carp (Cyprinus Carpio) Larvae,
W77-03031 1006 5C

Increased Opercular Rates of Pink Salmon (Oncorhynchus Gorbuscha) Fry after Exposure to the Water-Soluble Fraction of Prudhoe Bay Crude Oil,
W77-03032 1006 5C

Quantitative Relations Between the Bryophytes of the Belgian Part of the River Sambre and their Frequency of Emersion: Vertical Distribution and Influence of Pollution, (In French),
W77-03038 1006 5B

The Emergence of Insects from a British River Warmed by Power Station Cooling-Water. Part I. The Use and Performance of Insect Emergence Traps in a Large, Spate-River and the Effects of Various Factors on Total Catches, Upstream and Downstream of the Cooling-Water Outfalls,
W77-03043 1006 5C

The Effect of the Discharge of Thermal Effluent from a Power Station on the Primary Productivity of an Epiphytic Algal Community,
W77-03046 1006 5C

Regulation of Oxygen Consumption by Incident Illumination in Embryonated Ova of Atlantic Salmon Salmo Salar L.,
W77-03051 1006 5C

Coastal Region Residence Time Estimates from Concentration Gradients,
W77-03093 1007 5C

Toxicity of No. 2 Fuel Oil to Coon Stripe Shrimp,
W77-03186 1007 5C

Effects of Oil Pollution on Breeding Grey Seals,
W77-03187 1007 5C

Effects of Crude Oil on American Lobster (Homarus Americanus) Larvae in the Laboratory,
W77-03197 1007 5C

Effects on Fertilization and Development of the Common Mussel, Mytilus Edulis After Long-Term Exposure to a Nonionic Surfactant,
W77-03198 1007 5C

Effect of Copper on Some Aspects of the Bioenergetics of Rainbow Trout (Salmo gairdneri),
W77-03203 1007 5C

Effects of Chronic DDT/DDE Exposure on Anesthetic Induction and Recovery Times in Rainbow Trout (Salmo Gairdneri),
W77-03204 1007 5C

Assessment of Potential Interactions of Microorganisms and Pollutants Resulting from Petroleum Development on the Outer Continental Shelf in the Beaufort Sea,
W77-03217 1007 5C

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Historical and Statistical Oceanographic Data Analysis and Ship of Opportunity Program,
W77-03237 1007 5A

Benthos-Sedimentary Substrate Interactions,
W77-03263 1007 5C

Preliminary Assessment of Suspected Carcinogens in Drinking Water: Report to Congress.
W77-03360 1007 5A

The Impact of Fargo, North Dakota's Waste Discharges on the Interstate Waters of the Red River of the North, September 1969-April 1970,
W77-03361 1007 5B

Trace Metal Pollution from a Metropolitan Area: Sources and Accumulation in the Lower Fraser River and Estuary,
W77-03652 1008 5B

The Form of Mercury in Freshwater Fish,
W77-03673 1008 5A

Origin and Fate of Mercury Compounds in Fish,
W77-03674 1008 5B

The Ways of Transport of Mercury to Fish,
W77-03675 1008 5B

Time and Space Dependence of Pollutant Levels in Aquatic Biota, Field Studies,
W77-03676 1008 5B

Trends of PCB and DDT in Fish and Aquatic Birds,
W77-03677 1008 5B

Mercury Effects on Swimming and Metabolism of Trout,
W77-03678 1008 5C

The Ottawa River Project,
W77-03683 1008 5B

The Costs and Effects of Chronic Exposure to Low-Level Pollutants in the Environment,
W77-03701 1008 6G

Effects of Pulp Mill Effluent on Phytoplankton Production in Coastal Marine Waters of British Columbia,
W77-03797 1008 5C

Marine Phytoplankton Growth in High Concentrations of Pulp Mill Effluent,
W77-03798 1008 5C

Aqueous Leachate from Western Red Cedar: Effects on Some Aquatic Organisms,
W77-03799 1008 5C

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Effects of Suspended and Deposited Sediments on Estuarine Organisms - Phase II,
W77-03901 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Effects of Dietary Aroclor (R) on Channel Catfish (Ictalurus Punctatus) and the Selective Accumulation of PCB Components,
W77-04034 1008 5C

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Long-Term Chemical Effects of Petroleum in South Louisiana Wetlands - 1. Organic Carbon in Sediments and Waters,
W77-04043 1008 5C

State of Oregon Coastal Zone Management Program, Draft Environmental Impact Statement,
W77-04184 1009 6G

Proposed Federal Approval of the Coastal Zone Management Program, Mid-Coast Segment, State of Maine, Draft Environmental Impact Statement.
W77-04185 1009 6G

Environmental Assessment of the Alaskan Continental Shelf. Volume 2. Principal Investigators' Reports April - June 1976.
W77-04201 1009 6G

Bacterial Attack of Corals in Polluted Seawater,
W77-04335 1009 5C

The Use of Recovery as a Criterion for Toxicity,
W77-04340 1009 5A

Test of a Model for Predicting the Body Burden of Trace Contaminants in Aquatic Consumers,
W77-04341 1009 5C

Navigable Waters: Discharge of Dredged or Fill Material.
W77-04373 1009 5G

Gas Bubble Disease of Salmonids: Variation in Oxygen Nitrogen Ratio with Constant Total Gas Pressure,
W77-04426 1009 5C

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

Potential Effects of Oil Production on Georges Bank Communities: A Review of the Draft Environmental Impact Statement for Outer Continental Shelf Oil and Gas Lease Sale No. 42,
W77-04834 1010 6G

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04844 1010 5C

The Biological Importance of a Polluted Estuary,
W77-04860 1010 5C

Wasted Heat and Aquatic Ecosystems,
W77-04869 1010 5C

Review of Oil Spreading on the Sea,
W77-04940 1010 5B

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Petroleum, Temperature, and Toxicants: Examples of Suspected Responses by Plankton and Benthos on the Continental Shelf,
W77-04942 1010 5C

Laboratory Experiments on the Effects of Ocean Dumping on Benthic Invertebrates. I. Choice Tests with Solid Wastes,
W77-04949 1010 5C

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

Survey of Marine Communities in Panama and Experiments with Oil,
W77-05020 1010 5C

Oil Spill and Oil Pollution Reports August 1975 - October 1975,
W77-05023 1010 5B

Oil Spill and Oil Pollution Reports May 1975 - July 1975,
W77-05024 1010 5B

Oil Spill and Oil Pollution Reports November 1975 - January 1976,
W77-05025 1010 5B

Oil Spill and Oil Pollution Reports February 1976 - April 1976,
W77-05026 1010 5B

Biological Impact Caused by Changes on a Tropical Reef,
W77-05027 1010 5C

The Ecological Impact of Synthetic Organic Compounds on Estuarine Ecosystems,
W77-05028 1010 5C

Local and Seasonal Variations in Populations of the Leech Erpobdella Octoculata (L) in a Polluted River Warmed by Condenser Effluents,
W77-05236 1011 5C

Environmental Assessment,
W77-05381 1011 6G

Marine Pollution Research Titles.
W77-05383 1011 5A

Effects of Dredging and Disposal on Some Benthos at Monterey Bay, California,
W77-05387 1011 5C

The Effects of Organic and Nutrient Enrichment on the Benthic Macroinvertebrate Community of Moggill Creek, Queensland (Australia),
W77-05529 1011 5C

Thermal Alteration and the Enhancement of Species Populations,
W77-05544 1011 5C

The Effects of Thermal Loading on the Growth and Ecology of a Northern Population of Spartina Alterniflora,
W77-05548 1011 5C

Effects of a Thermal Effluent on the Reproduction of the American Oyster,
W77-05549 1011 5C

Chronic In Situ Exposure of the Bay Scallop to Power-Plant Effluents,
W77-05578 1011 5C

Toxicity of Polychlorinated Biphenyls (PCB's) to Euglena Gracilis: Cell Population Growth, Carbon Fixation, Chlorophyll Level, Oxygen Consumption, and Protein and Nucleic Acid Synthesis,
W77-05613 1012 5C

Effects of Heavy Metals on Fin Regeneration in the Killifish, Fundulus Heteroclitus,
W77-05616 1012 5C

A Histological Study of the Response of the Interrenal Cells of the Goldfish (Carassius Auratus) to Treatment with Sodium Lauryl Sulphate,
W77-05620 1012 5C

Bioconcentration of Four Pure PCB Isomers by Chlorella Pyrenoidosa,
W77-05634 1012 5C

Effects of Kraft Pulping Effluents on the Benthic Algal Populations in Northwestern Spain. I. Distribution and Abundance of Characteristic Fucaceae (Incidencia de vertidos industriales en la estructura de poblaciones intermareales. I. Distribucion y abundancia de Fucaceas caracteristicas),
W77-05690 1012 5C

Fish Toxicity with Specific Reference to the Pulp and Paper Industry,
W77-05712 1012 5C

Survival of Daphnia, Crayfish and Stoneflies in Air-Supersaturated Water,
W77-05767 1012 5C

Supersaturation of the Water Supply and Occurrence of Gas Bubble Disease at Cultus Lake Trout Hatchery,
W77-05773 1012 5C

Combined Action of Polyphenols, Quinones, Reducers, and Certain Other Compounds on Aquatic Plants,
W77-05859 1012 5C

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

Histopathology of an Acute Fin Lesion in the Summer Flounder, Paralichthys Dentatus, and Some Speculations on the Etiology of Fin Rot Disease in the New York Bight,
W77-05870 1012 5C

Accumulation and Release of Fuel-Oil-Derived Diaromatic Hydrocarbons by the Polychaete Neanthes Arenaceodentata,
W77-05881 1012 5C

Osmoregulation of the Shrimp Palaemonetes Pugio Exposed to Polychlorinated Biphenyls (PCB'S). II. Effect on Free Amino Acids of Muscle Tissue,
W77-05883 1012 5C

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-05896 1012 5A

Response of Epiphytic Bacteria to the Treatment of Two Aquatic Macrophytes with the Herbicide Paraquat,
W77-05897 1012 5C

Rate of Conversion of 14-C-p-p' -DDT to p,p'-DDE by Brook Trout (Salvelinus Fontinalis): Absence of Effect of Pretreatment of Fish with Compounds Related to p,p' -DDT,
W77-05905 1012 5C

Effects of a Spill of Marine Diesel Oil on the Rocky Shore Fauna of Lamma Island, Hong Kong,
W77-05906 1012 5C

Toxicity of Pentachlorophenol and 2,3,6-Trichlorophenol to the Crayfish (Astacus Fluviatilis L.),
W77-05907 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon,
W77-05911 1012 5C

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

Influence of the DBS (Deterlon) and TBS (Marlon) Type Detergents on the Bream Abramis Brama (L.) Under the Applied Load of the General Physical Effort,
W77-06287 1013 5C

Recording Bioelectric Action Potentials of Marine Decapod Crustacea by Remote Electrodes: A Bioassay Procedure for Monitoring Hydrocarbon Pollution,
W77-06430 1013 5A

LAS Inhibition of Diffusion and Uptake of Tritiated Uridine During Teleost Embryogenesis,
W77-06611 1014 5C

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Response of Natural Marine Bacterial Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06622 1014 5A

Effects of Four Oils on Marine Bacterial Populations: Controlled Ecosystem Pollution Experiment,
W77-06623 1014 5A

Effects of Copper on Phytoplankton Standing Crop and Productivity: Controlled Ecosystem Pollution Experiment,
W77-06624 1014 5A

Effects of Copper on the Dominance and the Diversity of Algae: Controlled Ecosystem Pollution Experiment,
W77-06625 1014 5A

Tissue Accumulation and Enzymatic Effects of Hexavalent Chromium in Rainbow Trout (Salmo Gairdneri),
W77-06639 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin I. Quantitative Relations and Qualitative Composition of the Bottom Fauna of the Konin Lakes Complex, (In Polish),
W77-06749 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin III. An Effort to Explain the Causes and Results of Changes in the Bottom Fauna of Lakes as Influenced by the Inflow of Heated Waters, (In Polish),
W77-06751 1014 5C

Primary and Secondary Production of Plankton in Heated Lakes, (In Polish),
W77-06752 1014 5C

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

Health Effects of Multipurpose Use of Water,
W77-06775 1014 5C

Median Tolerance Limits of Some Chemicals to the Fresh Water Fish Cyprinus-Carpio,
W77-06780 1014 5C

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-06782 1014 5C

Correlation Coefficients and Concentration Factors of Copper and Lead in Seawater and Benthic Algae,
W77-06783 1014 5C

A Preliminary Survey of Mercury in Fish from Bombay and Thana Environment,
W77-06785 1014 5C

Avifaunal Utilization of the Offshore Island Area Near Prudhoe Bay, Alaska,
W77-06812 1014 6G

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Spawning Herring Surveys in the Bering Sea and Finfish Resource Surveys in Norton Sound and Kotzebue Sound,
W77-06828 1014 6G

A Pilot Study on the Design of a Petroleum Hydrocarbon Baseline Investigation for Northern Puget Sound and Strait of Juan de Fuca,
W77-06875 1014 5C

Impact of Oil Spillage from World War II Tanker Sinkings,
W77-06877 1014 5C

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

Role of Mussels Mytilus edulis in Removal of Petroleum Products from Seawater (Under Experimental Conditions),
W77-07116 1015 5C

Seasonal Changes of Invertebrate Populations in the Polluted River Medlock,
W77-07121 1015 5C

A Natural Pollution Experiment: The Effects of a Sewage Strike on the Fauna of the Thames Estuary,
W77-07124 1015 5C

Present and Historical Spawning Grounds and Nurseries of American Shad, Alosa sapidissima, in the Delaware River,
W77-07131 1015 5C

The Ecological, Chemical and Histopathological Evaluation of an Oil Spill Site, Part III: Histopathological Studies,
W77-07180 1015 5C

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

Heinz Body Hemolytic Anemia in Coho Salmon (Oncorhynchus Kisutch) Exposed to Chlorinated Wastewater,
W77-07189 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

United States V Ashland Oil and Transportation Company (Use of the Word 'Navigable Waters' in the Federal Water Pollution Control Act Amendments of 1972 Held to Mean 'Waters of the United States').
W77-07273 1015 6E

Aquatic Organism Contamination by Mercury Residues in the Coatzacoalcos River Estuary, Mexico,
W77-07394 1015 5C

Characteristics of the Areas in Which Fast Current Oil Control is Needed,
W77-07741 1016 5G

Impacts of Offshore Oil on North East Scotland,
W77-07752 1016 5C

The ARGO MERCHANT Oil Spill. A Preliminary Scientific Report,
W77-07807 1016 5C

Effects of Pollutants on Eggs, Embryos and Larvae of Amphibian Species,
W77-07820 1016 5C

Physiological Response of the Cunner, Tautogolabrus adspersus, to Cadmium.
W77-07830 1016 5C

Ultrastructural Study of Lesions in Gills of a Marine Shrimp Exposed to Cadmium,
W77-07845 1016 5C

Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

Heavy Metal Tolerance of Marine Phytoplankton. III. Combined Effects of Copper and Zinc Ions on Cultures of Four Common Species,
W77-08692 1018 5C

The Role of Methylmercury Production in the Transfer of Mercury in a Salt Marsh Ecosystem,
W77-08697 1018 5C

Dose-Dependent Effects of Methylmercury on Limb Regeneration of Newts (Triturus Viridescens),
W77-08699 1018 5C

Methylmercury Induced Injury of Single Barnacle Muscle Fibers,
W77-08700 1018 5C

Effects of Mercury, Cadmium, and Lead Salts on Regeneration and Ecdysis in the Fiddler Crab, UCA Pugilator,
W77-08702 1018 5C

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

Transport of Molybdenum in Mountainous Streams, Colorado,
W77-08705 1018 5B

Effects of a Spill of Marine Diesel Oil on the Meiofauna of a Sandy Beach at Picnic Bay, Hong Kong,
W77-08760 1018 5C

Toxicity, Accumulation, and Release of Three Polychlorinated Naphthalenes (Halowax 1000, 1013, and 1099) in Postlarval and Adult Grass Shrimp, Palaemonetes Pugio,
W77-08773 1018 5C

The Effect of Two Pesticides, Miedzian 50 and Gesagard 50, on the Development of Tadpoles of Rana temporaria,
W77-08776 1018 5C

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Development of a Blood Sugar Bioassay for Rapidly Measuring Stressful Levels of Pulpmill Effluent to Salmonid Fish,
W77-08779 1018 5A

Avoidance of Bleached Kraft Pulpmill Effluent by Pinfish (Lagodon Rhomboides) and Gulf Killifish (Fundulus Grandis),
W77-08780 1018 5C

The Influence of Some Pollutants on the Survival of Eggs and Larvae of Two Species of Flatfish, Limanda Yokohamae and Paralichtys olivaceus, (In Japanese),
W77-08782 1018 5C

Effects of Sublethal Concentrations of the Herbicide Atrazin on Growth and Reproduction of Daphnia Pulex,
W77-08786 1018 5C

Some Effects of Oil Dispersants on the Feeding Behaviour of the Brown Shrimp, Crangon crangon,
W77-08790 1018 5C

Algal Uptake of Copper from Compounds and Its Effect on Salt Metabolism in Algae,
W77-08792 1018 5C

Incorporation of Benzathrone into the Nuclei of Gyrodinium sp. and the Heredity of Consequent Mitotic Delays,
W77-08796 1018 5C

Physiological and Behavioral Reactions of Fishes to Temperature Change,
W77-08802 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

Effects of Temperature and Kelthane on Grass Shrimp,
W77-08874 1018 5C

Analysis of Pollution from Marine Engines and Effects on the Environment.
W77-08902 1018 5B

An Examination of Some Physical and Biological Impacts of Dredging in Estuaries,
W77-08918 1018 5C

Environmental Regulation of Gametogenesis in Scenedesmus Obliquus,
W77-09060 1018 5C

Vulnerability Model: A Simulation System for Assessing Damage Resulting from Marine Spills,
W77-09239 1019 5C

Response of the Macroinvertibrate Fauna to a Copper Gradient in an Experimentally-Polluted Stream,
W77-09491 1019 5C

Chlorine-Containing Stable Organics: New Compounds of Environmental Concern,
W77-09492 1019 5C

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W77-09526 1019 5C

Temperature as a Proximate Factor in Orientation Behavior,
W77-09680 1020 5C

Effluents of Kraft Mills and Their Toxicity for Hydrobionts (Stochnye vody sul'fat-tsellyuloznykh zavodov i ikh toksichnost' dlya gidrobiontov)),
W77-09739 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

A Descriptive Evaluation of the Effects of No. 2 Fuel Oil on the Tissues of the Soft Shell Clam, Mya arenaria L.,
W77-10243 1021 5C

Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay,
W77-10246 1021 5C

Copper Toxicity Experiments in Relation to Abalone Deaths Observed in a Power Plant's Cooling Waters,
W77-10261 1021 5C

The Effects of Organic Pollution on Benthic Organisms Near Marseille,
W77-10365 1021 5C

Impacts of Nuclear Releases into the Aquatic Environment.
W77-10384 1021 5C

Radiocaesium Dynamics in a Contaminated Floodplain Ecosystem in the Southeastern United States,
W77-10406 1021 5C

Biochemical and Physiological Changes in Egyptian Nile Fish Subjected to Varying Levels of Gamma Irradiation,
W77-10412 1021 5C

The Effect of Urban Sewage and Industrial Wastes of Bialystok on the Purity and Biocoenosis of the Suprasl and Narew Rivers (Wplyw sciekow miejskich i przemyslowych m. Bialegostoku na czystosc i biocenoze rzeki Suprasli i Narwi),
W77-10593 1021 5C

A Summary of Receiving Water Dissolved Oxygen Conditions Below Pulp and Paper Mill Locations,
W77-10705 1021 5B

Water Pollution and Human Health,
W77-10751 1021 5C

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Oil Spill and Oil Pollution Reports, February 1975 - April 1975,
W77-10891 1022 5G

Oil in Southern California Marshes,
W77-11034 1022 5C

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection,
W77-11241 1022 5C

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

Bioassay Procedures for Marine Phytoplankton with Special Reference to Chlorine,
W77-11245 1022 5A

The Effect of Petroleum Hydrocarbons on Reproduction of an Estuarine Planktonic Copepod in Laboratory Cultures,
W77-11247 1022 5C

Hepatomas in Marine Fish from an Urban Estuary,
W77-11253 1022 5C

Acidification of Lakes in Canada by Acid Precipitation and the Resulting Effects on Fishes,
W77-11257 1022 5C

Optimal Control Theory Applied to a Dynamic Aquatic Ecosystem,
W77-11258 1022 5C

The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication,
W77-11261 1022 5C

The Occurrence of Fin Rot in Mullet (Mugil cephalus) Associated with Crude Oil Contamination of an Estuarine Pond-Ecosystem,
W77-11264 1022 5C

The Effects of Various Components of Water Pollution on the Behavior of Some Aquatic Macrophytes of the Coastal Rivers of Israel,
W77-11266 1022 5C

Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

Behavioral Effects of Mercury on Grass Shrimp,
W77-11284 1022 5C

Effects of Crude Oil on the Locomotory Activity of Arctic Marine Invertebrates,
W77-11285 1022 5C

Uptake and Clearance of Petroleum Hydrocarbon in the Ringed Seal, Phoca Hispida,
W77-11296 1022 5C

The Effects of Esso Corexit 9527 on the Fertilizing Capacity of Spermatozoa,
W77-11307 1022 5C

Toxicology of Metals - Volume I,
W77-11316 1022 5C

Statement on Approaches to the Study of Pollution in Benthic Marine Environment, (In Italian),
W77-11325 1022 5C

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Filtering Rate Performance of Daphnia Retrocurva in Pulp Mill Effluent,
W77-11349 1022 5C

Extent of Effluent Influence on Lake Water Determined by Bacterial Population Distributions,
W77-11350 1022 5B

Morphological Adaptations to Thermal Stress in a Marine Fish, Fundulus Heteroclitus,
W77-11351 1022 5C

On the Influence of Sewage Pollution on Inshore Benthic Communities In the South of Kiel Bay. Part 2. Quantitative Studies on Community Structure,
W77-11362 1022 5C

Marine Cladocera (Crustacea) in the Eutrophicated and Polluted Saronic Gulf (Greece),
W77-11420 1022 5C

Effects of Stable Chlorine-Containing Organics on Aquatic Environments,
W77-11503 1023 5C

Partitioning of Polycyclic Aromatic Hydrocarbons Between Dissolved and Particulate Phases in Natural Waters,
W77-11504 1023 5B

The Accumulation of Mercury by the Thornback Ray, Raja Clavata L.,
W77-11507 1023 5C

The Accumulation of Mercury from Food by the Plaice, Pleuronectes Platessa L.,
W77-11508 1023 5C

Retention of a Single Oral Dose of Cadmium in Tissues of the Softshell Turtle, Trionyx Spinifer,
W77-11513 1023 5C

Methylmercury in the Environment: A Review of Current Understanding,
W77-11516 1023 5C

Polyamine Synthesis in Liver and Kidney of Flounder in Response to Methylmercury,
W77-11518 1023 5C

Trace Elements in Acartia Clausi from Elefsis Bay of the Upper Saronikos Gulf, Greece,
W77-11521 1023 5C

Effect of Tetramethyl Lead on Freshwater Green Algae,
W77-11522 1023 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-11526 1023 5C

Toxic Interaction of Mixtures of Two Coal Conversion Effluent Components (Resorcinol and 6-Methylquinoline) to Daphnia Magna,
W77-11528 1023 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Voticella Convallaria Var Similis,
W77-11529 1023 5C

Distribution of Plutonium-237 in a Littoral Freshwater Microcosm,
W77-11530 1023 5B

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

The Potential Toxicity and Bioaccumulation in Aquatic Systems of Trace Elements Present in Aqueous Coal Conversion Effluents,
W77-11540 1023 5C

Organic Contaminants in Aqueous Coal Conversion Effluents: Environmental Consequences and Research Priorities,
W77-11647 1023 5C

Contribution of Gut Contents to the Concentration and Body Burden of Elements in Tipula Spp. From a Spring-Fed Stream,
W77-11649 1023 5C

Sublethal Effects of Petroleum Fractions on the Behavior of the Lobster, Homarus Americanus, and the Mud Snail, Nassarius Obsoletus,
W77-11890 1023 5C

Social Cost of Oil Pollution,
W77-11892 1023 5G

An Environmental Survey of Effects of Dredging and Spoil Disposal, New London, Connecticut: 6th Quarterly Report.
W77-11899 1023 5C

Application of Landsat-2 to the Management of Delaware's Marine and Wetland Resources,
W77-11903 1023 5C

The Effect of Feedlot Runoff on Community Structure in the Cottonwood River, Kansas,
W77-11972 1023 5C

Mesenchymal Tumors of Some Estuarine Fishes of The Northern Gulf of Mexico. I. Subcutaneous Tumors, Probably Fibrosarcomas, in the Striped Mullet, Mugil cephalus,
W77-12236 1023 5C

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

WATER POLLUTION SOURCES

Dynamics of the Composition and the Qualities of Water-Soluble Organic Substance During the Composting of Clover and Timothy Roots, (In Russian),
W77-00062 1001 5B

The Relation of Aerogenic to Anaerogenic Aeromonads of the 'Hydrophila-Punctata-Group' in River Water Depending on the Pollution Level, (In German),
W77-00112 1001 5C

Los Angeles Harbor Field Investigation of Oil and Background Luminescence Signatures,
W77-00197 1001 5A

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

Oil Spill-Source Correlation by Gas Chromatography: An Experimental Evaluation of System Performance,
W77-00218 1001 5A

Techniques for Analysis of Paraffin Hydrocarbons and for Interpretation of Data to Assess Oil Spill Effects in Aquatic Organisms,
W77-00219 1001 5A

A Multiparameter Oil Pollution Source Identification System,
W77-00222 1001 5A

Charcteristics of Naturally Occurring and Pollutant Hydrocarbons in Marine Sediments,
W77-00223 1001 5A

Comparative Identification of Oil Spills by Fluorescence Spectroscopy Fingerprinting,
W77-00224 1001 5A

Determination of Hydrocarbon Solubility in Sea Water and the Analysis of Hydrocarbons in Water-Extracts,
W77-00225 1001 5A

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

Klebsiella Densities in Waters Receiving Wood Pulp Effluents,
W77-00337 1001 5C

Coliform Bacteria from Diffuse Sources as a Factor in Estuarine Pollution,
W77-00359 1001 5B

National Conference on Polychlorinated Biphenyls (November 19-21, 1975, Chicago, Illinois), Proceedings.
W77-00460 1001 5B

The View of the Paper Industry on the Occurrence of PCB's in the Environment and the Need for Regulation,
W77-00461 1001 5B

Review of PCB (Polychlorinated Biphenyls) in the Environment.
W77-00463 1001 5B

Ground-Water Quality in the Davie Landfill, Broward County, Florida,
W77-00486 1001 5B

The Nonpoint Source Pollutant Loading (NPS) Model,
W77-00617 1002 5B

Water Pollution Investigation: Erie, Pennsylvania Area,
W77-00724 1002 5C

Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Report to the Congress on Ocean Dumping Research, January through December 1975.
W77-00892 1002 5G

Marine Pollution Articles in the Law of the Sea Single Informal Negotiating Text,
W77-00894 1002 5G

Investigations into the Vertical Distribution of Organisms and Chemical Substances in the Groundwater in Valleys and Terraces: Methods and first Results, (In German),
W77-00919 1002 5A

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

Nonpoint Pollution and Water Quality Monitoring,
W77-00960 1002 5G

Pelagic Tar,
W77-00969 1002 5B

Oil-in-Water Monitor,
W77-01201 1003 5A

Method and Apparatus for the Purification of a Liquid Contaminated with Radioactive Substances,
W77-01216 1003 5D

The Environmental Chemistry of Copper (II) in Aquatic Systems,
W77-01257 1003 5B

Implications of EPA Proposed Regulations of November 20, 1975 for the Animal Feeding Industries,
W77-01529 1003 5G

Ground-Water Contamination by Dissolved Nitrate,
W77-01542 1003 5B

Environmental Poisons.
W77-01547 1003 5C

Considerations on the Waste Water Quality and Treatment at the Antibiotics Plant from Jassy, (In Hungarian),
W77-01580 1004 5D

Petroleum Analysis: Methodology for Quantitative and Qualitative Assessment of Oil Spill,
W77-01632 1004 5A

Toxic Constituents in Woodroom Effluents,
W77-01667 1004 5B

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

Containment Boom,
W77-01721 1004 5G

Method and Apparatus for Controlling the Discharge of Contaminants from Ships,
W77-01732 1004 5G

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Monitoring Groundwater Quality: Illustrative Examples.
W77-01772 1004 5B

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Monitoring Groundwater Quality: Monitoring Methodology,
W77-01775 1004 5B

Water Pollution Investigation: Genesee River and Rochester Area,
W77-01785 1004 5C

Water Pollution Investigation: Buffalo River,
W77-01786 1004 5C

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Nitrate and Phosphate: Time-Trend Concentrations in Selected Kansas Streams,
W77-01818 1004 5B

Agricultural Water Pollution: Some Problems Associated with its Control,
W77-01898 1004 5G

Characterization of Urban Runoff - New Jersey,
W77-01945 1004 5B

Agricultural and Other Non-Point Sources of Water Pollution,
W77-02053 1004 5G

Agricultural and Other Non-Point Sources of Water Pollution: Non-Point Sources and Cost Effectiveness,
W77-02057 1004 5G

Utility of Urban Runoff Modeling, (Proceedings of a Special Session, Spring Annual Meeting, American Geophysical Union, Washington, D.C. 14 April 1976.
W77-02076 1005 2A

Case of Subsurface Water Pollution by Petroleum Product Wastes, (In Russian),
W77-02273 1005 5B

Nonpoint-Source Pollution in Surface Waters: Associated Problems and Investigative Techniques.
W77-02444 1005 5B

Carpet and Rug Industry Case Study I: Water and Wastewater Treatment Plant Operation,
W77-02574 1005 5D

Proceedings of: National Conference on Health, Environmental Effects, and Control Technology of Energy Use.
W77-02649 1006 5G

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

NOAA's Activities In Energy Related Measurement and Monitoring,
W77-02652 1006 5G

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

The Effect of Agriculture on the Surroundings of Lake Balaton,
W77-02776 1006 5B

Contaminants in the New York Bight,
W77-02799 1006 5B

Analysis of Emissions from Outboard Two Cycle Marine Engines,
W77-02823 1006 5B

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

Detection of Pathogenic Leptospires in Effluent and Sewage Sludge from Large Piggeries, (In German),
W77-02998 1006 5A

Extensive Overburden Potentials for Soil and Water Quality,
W77-03008 1006 5B

Cadmium in an Aquatic Ecosystem: Distribution and Effects,
W77-03009 1006 5B

The Biology and Chemistry of a Warm-Water Stream,
W77-03010 1006 5C

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Determination of Estimated Mean Mine Water Quantity and Quality from Imperfect Data and Historical Records.
W77-03014 1006 5B

Thin-Layer Chromatographic Determination of Anthio and Butyphos in Water, (In Russian),
W77-03022 1006 5A

Behavior of Hydrazine Compounds in Hard and Soft Water,
W77-03042 1006 5B

Immediate Industrial Effects on Sediment Mercury Concentrations in a Clean Coastal Environment,
W77-03188 1007 5B

Olympic Alliance Oil Spillage,
W77-03195 1007 5C

Hydrocarbons: Natural Distribution and Dynamics on the Alaskan Outer Continental Shelf,
W77-03224 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Outer Continental Shelf Energy Program,
W77-03234 1007 5B

Report on Pollution in Las Vegas Wash and Las Vegas Bay.
W77-03371 1007 5C

Evaluation of Lake Milner Water Quality Model,
W77-03373 1007 5B

Water Quality in the Calumet Area. Conference on Pollution of Lower Lake Michigan, Calumet River, Grand Calumet River, Little Calumet River, and Wolf Lake, Illinois and Indiana.
W77-03382 1007 5B

Paint Formulating Point Source Category Effluent Guidelines and Standards.
W77-03526 1007 5G

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

Lead Transport in a River Ecosystem,
W77-03672 1008 5B

Hydraulics of Surface Buoyant Jet,
W77-03743 1008 8B

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

Water Quality Monitoring: Kaneohe Bay and Selected Watersheds July to December 1975,
W77-03826 1008 5B

Abatement of Nitrate Pollution in a Public-Supply Well by Analysis of Hydrologic Characteristics,
W77-03879 1008 5G

Ground-Water Pollution Near a Landfill,
W77-03991 1008 5B

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Application of Estimation Theory to Design of Sampling Programs for Verification of Coastal Dispersion Prediction,
W77-04193 1009 5B

Atmospheric Trace Metals Over the New York Bight,
W77-04195 1009 5B

Organic Carbon and Nitrogen Concentrations and Annual Organic Carbon Load of Six Selected Rivers of the United States,
W77-04230 1009 5B

An Oilspill Risk Analysis for the Mid-Atlantic Outer Continental Shelf Lease Area,
W77-04232 1009 5B

The Present and Future of Coasts.
W77-04462 1009 2L

Farmers and Fishermen: Interaction in the Coastal Zone,
W77-04473 1009 6G

The Use of Remote Sensing for Coastal Zone Monitoring,
W77-04475 1009 5B

Thermal Pollution in the Los Angeles-Long Beach Harbor: Consequences and Alternatives,
W77-04476 1009 5B

A Risk and Cost Analysis of Transporting Southern California Outer Continental Shelf Oil.
W77-04490 1009 5G

The Survival of Sewage Bacteria at Various Ocean Depths,
W77-04491 1009 5B

A Cost-Effective Satellite-Aircraft-Drogue Approach for Studying Estuarine Circulation and Shelf Waste Dispersion,
W77-04492 1009 5B

An Examination of the Possible Effects of Sudbury Nickel Mining and Smelting Operations on Fishes and the Water Chemistry of Lakes Within the Whitefish Lake Indian Reserve,
W77-04571 1009 5C

Observations on the Problems of Pollution in Shatt Al-Arab, Iraq,
W77-04575 1009 5B

Agriculture's Contribution to the Solid Waste Problem,
W77-04608 1010 5G

Final Pollution Rules Released,
W77-04609 1010 5G

Faecal Coliforms and Faecal Streptococci in Streams in the New Guinea Highlands,
W77-04620 1010 5B

Fecal Coliform and Fecal Streptococcus Density Relationships in Waste Discharges and Receiving Waters,
W77-04711 1010 5B

Groundwater Pollution From a Septic Tile Field,
W77-04728 1010 5B

Documentation of Four Ocean-Related Computer Modules,
W77-04838 1010 5B

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Petroleum Identification by Laser Raman Spectroscopy,
W77-04843 1010 5A

Protection of the Environment: Paint Formulating Point Source Category: Pretreatment Standards for Existing Sources,
W77-04926 1010 5G

Plankton Processes in Mid-Atlantic Nearshore and Shelf Waters and Energy-Related Activities,
W77-04941 1010 5C

Saline Water in the Little Arkansas River Basin Area, South-Central Kansas,
W77-04979 1010 5B

Reconnaissance Water Sampling for Radium-226 in Central and Northern Florida, December 1974--March 1976,
W77-04983 1010 5A

Non-Point Sources of Water Pollution.
W77-05007 1010 5B

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

Marine Pollution Research Titles.
W77-05383 1011 5A

Characterization of Sanitary Landfill Leachates,
W77-05432 1011 5B

The Highway as a Source of Water Pollution: An Appraisal with the Heavy Metal Lead,
W77-05452 1011 5B

Final Environmental Statement. Vol 1, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Oil Pollution Compliance Monitor,
W77-05600 1011 5A

Mercury in the Surficial Sediments of Lake Erie,
W77-05628 1012 5B

Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

Quality Characteristics of Urban Storm Water in Sydney, Australia,
W77-05963 1012 5B

Nonpoint Source Pollution from Agricultural Runoff,
W77-06003 1012 5B

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

Analysis of Lead in Polluted Coastal Seawater,
W77-06159 1013 5A

Control and Treatment of Waste Water,
W77-06185 1013 5G

Storage of Wastes from Watercraft and Disposal at Shore Facilities,
W77-06201 1013 5D

Inorganic Pollution from Forests and Rangelands,
W77-06239 1013 5B

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

London's Stormwater Problem,
W77-06297 1013 5B

An Integrated Approach to Delineating Contaminated Ground Water,
W77-06311 1013 5B

PCB Investigations of the Mississippi River and its Tributaries Water, Bottom Sediment and Point Sources,
W77-06368 1013 5C

Proceedings of the Conference on Nonpoint Sources of Water Pollution: Problems, Policies and Prospects.
W77-06396 1013 5B

Oil Slick Sampling Apparatus and Method,
W77-06444 1013 5A

Process for Recovery of Dissolved Mercury Salts from Aqueous Solutions,
W77-06445 1013 5D

Degritting and Fiber Removal System,
W77-06448 1013 5D

Transport Pathways of Polychlorinated Biphenyls in Atlantic Water,
W77-06469 1013 5B

Degradation of Phenolic Compounds Downstream from a Petroleum Refinery Complex,
W77-06470 1013 5B

PCBs in N.W. Mediterranean Coastal Waters,
W77-06488 1013 5B

Effects of Iranian Crude Oil on the Red Sea Octocoral Heteroxenia fuscescens,
W77-06494 1013 5C

Seasonal Variation in the Biodegradation of 2,4-D in River Water,
W77-06496 1013 5B

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

Certification Procedures and Design and Construction Requirements for Marine Sanitation Devices.
W77-06558 1013 5D

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

Chlorine Reactions with Seawater Constituents and the Inhibition of Photosynthesis of Natural Marine Phytoplankton,
W77-06637 1014 5C

The Fauna of the Polluted River Tees Estuary,
W77-06638 1014 5C

Petroleum Hydrocarbons from Effluents: Detection in Marine Environment,
W77-06660 1014 5A

An Estimate of the Input of Atmospheric Trace Elements into the North Sea and the Clyde Sea (1972-3),
W77-06668 1014 5B

Study of Leachate at Landfill Sites 1975, Volume 1.
W77-06851 1014 5B

Microbial Methane Consumption Reactions and Their Effect on Methane Distributions in Freshwater and Marine Environments,
W77-06899 1014 5C

Phosphate Prediction Model for Streams by Means of Discriminant Analysis,
W77-06906 1014 5B

The Impact of Fertilizer Use and Crop Management on Nitrogen Content of Subsurface Water Draining from Upland Agricultural Watersheds,
W77-06909 1014 5B

Fate of Nitrogen and Phosphorus in Soils Under Septic Tank Waste Disposal Fields,
W77-06914 1014 5B

Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite,
W77-06975 1014 5B

Sediments and Water Quality of Urban Storm Water,
W77-06984 1014 5B

Chicago Drives Large Bores to Control Combined Sewage Flow.
W77-06988 1014 8E

Drugs and Drug Metabolites as Environmental Contaminants: Chlorophenoxyisobutyrate and Salicylic Acid in Sewage Water Effluent,
W77-07045 1014 5A

The WRE Storm Model,
W77-07073 1014 5B

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Leaching Characteristics of Polluted Dredgings,
W77-07158 1015 5B

Convective-Dispersion in Perennial Streams,
W77-07160 1015 5B

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

United States V Ashland Oil and Transportation Company (Use of the Word 'Navigable Waters' in the Federal Water Pollution Control Act Amendments of 1972 Held to Mean 'Waters of the United States').
W77-07273 1015 6E

Long Island Beach Pollution: June 1976,
W77-07325 1015 5B

Effects of Man's Activities on Groundwater Quality,
W77-07359 1015 5B

Anthropogenically Reduced Groundwaters,
W77-07360 1015 5B

Inorganic Contaminants in Rural Drinking Waters,
W77-07372 1015 5A

Sources of Nitrogen as a Water Pollutant: Industrial Waste Water,
W77-07521 1015 5B

Relation Between the Amounts of Fertilization and Livestock Waste on Fields and the Pollution of Streams Flowing into Lake Kasumigaura: 1. On the Relation Between the Amount of Fertilizer Application and the Specific Pollution Loads of Nitrogen and Phosphorus in Main Streams Flowing into Lake Nishiura, (In Japanese),
W77-07568 1015 5B

Risk of Drinking Water Contamination in Rural Tennessee,
W77-07701 1016 5G

Monitoring Dissolved Hydrocarbons as a Function of the Tidal Cycle (New York Harbor),
W77-07740 1016 5B

Verification by Remote Sensing of an Oil Slick Movement Prediction Model,
W77-07745 1016 5B

A Method for Determining Oil in Water,
W77-07756 1016 5A

Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Determination of the Leeway of Oil Slicks,
W77-07800 1016 5B

A Review and Evaluation of Basic Techniques for Predicting the Behavior of Surface Oil Slicks,
W77-07808 1016 5B

Modeling Nonpoint Pollution from the Land Surface,
W77-07818 1016 5B

Rum Jungle Environmental Studies, Summary Report,
W77-07822 1016 5B

Mercury in the Biogeochemical Environment,
W77-07823 1016 5B

Influence of Environmental Factors on Selected Amelioration Techniques for Discharges of Hazardous Chemicals,
W77-07828 1016 5G

Israel's Use of Nonionic Surfactants,
W77-07929 1016 5B

Changes in the Properties of E. Coli Under the Influence of Water Environments,
W77-07997 1016 5A

Deep Water Resources of the Limestones of Franche-Comte: Problems of Quantity and Quality, (In French),
W77-08122 1017 4B

Method of Dispersing Oil in Water,
W77-08260 1017 5G

Bacteriological Pollution in the Drinking-Water of Jordan,
W77-08454 1017 5B

Progress in MHI's Integrated Techniques for Environmental Protection,
W77-08533 1017 5D

Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

Control of Non-Point Sources of Water Pollution Within an Ecological Framework: The Case of the Tri-County Region, Michigan,
W77-08625 1018 6E

Carbon Isotopic Study of the Fate of Landfill Leachate in Groundwater,
W77-08670 1018 5B

Results of a Microbiological Investigation of the Danube River by One Point Profile (1969-1971), (In German),
W77-08694 1018 5B

The Distribution of Trace Metals in the Western North Atlantic Off Nova Scotia,
W77-08703 1018 5B

Trace Element Inventory for the Northern Chesapeake Bay with Emphasis on the Influence of Man,
W77-08704 1018 5C

Transport of Molybdenum in Mountainous Streams, Colorado,
W77-08705 1018 5B

Acid Mine Drainage (AMD) and its Impact on a Small Virginia Stream,
W77-08784 1018 5C

Production and Heavy Metal Concentration of Vascular Aquatic Macrophytes in Three Eastern Connectituct Rivers,
W77-08814 1018 5B

Identification of Weathered Oil Films Found in the Marine Environment,
W77-08901 1018 5A

Characterization of Urban Runoff in Greenfield, Massachusetts--Phase I,
W77-08939 1018 5B

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

To Extend the Marine Protection, Research, and Sanctuaries Act (Hearing on S 3147 to Extend the Act 2 Years).
W77-08981 1018 6E

Solute Travel Times to Wells,
W77-09042 1018 5B

The Effect of Leachate from Western Red Cedar, THUJA PLICATA DONN, on Aquatic Organisms,
W77-09101 1019 5C

Physical Oceanographic Observations at Deepwater Dumpsite 106 -- May 1974,
W77-09249 1019 5B

Sewage Discharges from Ships Transiting Coastal Salt Waters,
W77-09333 1019 5B

Control of Water Pollution from Cropland: Volume II--An Overview.
W77-09390 1019 5G

Survival of Pathogens in Animal Manure Disposal,
W77-09402 1019 5B

Potential Environmental Impacts from the Production of Synthetic Fuels from Coal.
W77-09458 1019 5B

Survey of Industrial Processing Data. Task I-Hexachlorobenzene and Hexachlorobutadiene Pollution from Chlorocarbon Processing,
W77-09475 1019 5B

Assessment of Industrial Hazardous Waste Practices: Inorganic Chemicals Industry,
W77-09480 1019 5E

Analytic Variability: Implications for Permit Compliance,
W77-09538 1019 5G

Effluent Guidelines and Standards, Photographic Point Source Category.
W77-09557 1019 5G

Flushing Characteristics of a Mississippi Dead-End Canal System,
W77-09721 1020 5B

Domestic and Agricultural Contributions to the Inputs of Phosphorus and Nitrogen to Lough Neagh,
W77-09722 1020 5B

Loading Functions for Assessment of Water Pollution from Nonpoint Sources,
W77-09726 1020 5B

Effects of Log Handling and Storage on Water Quality,
W77-09760 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants - Volume I - Radford,
W77-09761 1020 5C

Steroids as Sewage Specific Indicators in New York Bight Sediments,
W77-09901 1020 5A

The Fate of Pollutants in Subsurface Environments,
W77-09915 1020 5B

Movement of Carbaryl Through Congaree Soil into Ground Water,
W77-09976 1020 5B

Elements Needed in Design of a Ground-Water-Quality Monitoring Network in the Hawaiian Islands,
W77-09995 1020 5B

Oil Spill Identification System.
W77-10024 1020 5A

Oil and Gas Seeps in Alaska. Alaska Peninsula, Western Gulf of Alaska,
W77-10033 1020 5B

Mercury in Waterways that Drain into the Wash, in Eastern England,
W77-10152 1021 5B

Problems and Policy Alternatives: Urban Areas,
W77-10160 1021 5G

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

Problems and Policy Alternatives: Mining,
W77-10163 1021 5G

Problems and Policy Alternatives: Construction,
W77-10164 1021 5G

Chicago Cleanup: Industry Outdoes the City.
W77-10447 1021 6E

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

Disposal of Salt Water During Well Construction, Problems and Solutions,
W77-10519 1021 5G

Protecting Ground Water from Domestic Wastewater Effluent,
W77-10520 1021 5G

Distribution of Nitrate in Ground Water, Redlands, California,
W77-10558 1021 5B

Pathogenic Amoebas from Brackish and Ocean Sediments, with a Description of Acanthamoeba Hatchetti, N. Sp.,
W77-10639 1021 5C

Study of Dilution of Sulfite Mill Effluents in Large Rivers and Evaluation of Determining Factors (Issledovanie protsessa razbavleniya stokov sul'fit-tsellyuloznogo proizvodstva v usloviakh bolshikh rek i otsenka opredelyashchikh faktorov),
W77-10704 1021 5B

Survey of Industrial Processing Data. Task II--Pollution Potential of Polybrominated Biphenyls,
W77-10750 1021 5B

Heavy Metal Discharges into Shasta Lake and Keswick Reservoirs on the Upper Sacramento River, California: A Reconnaissance During Low Flow,
W77-10860 1022 5B

Injection of Acidic Industrial Waste Into the Floridan Aquifer Near Belle Glade, Florida: Upward Migration and Geochemical Interactions 1973-75,
W77-10870 1022 5B

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

Review of PCB Levels in the Environment,
W77-10935 1022 5B

The Interrelationship of Material Toxicity Stream Properties and Quantity of Spilled Material in Assessing the Risk of Hazardous Material Spills,
W77-10938 1022 5B

Acoustic Method for Detecting Leaks from Submerged Pipelines,
W77-10995 1022 5G

Method for Preventing Gelation of Thermosetting Resins in Waste Water,
W77-11004 1022 5D

Process for Emergency Small Spill Control,
W77-11005 1022 5G

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Environmental Considerations of the Oil and Gas Production Industry in the Coastal Zone,
W77-11032 1022 5G

The Galveston Bay System - A Multi-Stressed Environment,
W77-11037 1022 5C

E I Dupont De Nemours and Company v Train (Review of Effluent Limitations for Chemical Industry).
W77-11201 1022 6E

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

River-Quality Assessments,
W77-11379 1022 5B

Aquatic Environmental Quality: Problems and Proposals,
W77-11421 1022 5A

Potomac River (Hearings on the State of the Potomac River as to Water Supply and Water Pollution).
W77-11449 1022 6E

Regulation of Forestry Related Nonpoint Source Pollution Under the Federal Water Pollution Control Act Amendments of 1972,
W77-11458 1022 5G

Heavy Metals in Water, Sediments, and Chironomids,
W77-11510 1023 5B

Mercury in Bottom Sediments of Rietvlei Reservoir,
W77-11512 1023 5B

Distribution of Cadmium, Zinc and Copper in the Mussel Mytilus Edulis. Existence of Cadmium-Binding Proteins Similar to Metallothioneins,
W77-11519 1023 5C

Interfacial Reactions and the Fate of Heavy Metals in Soil-Water Systems,
W77-11524 1023 5B

Distribution of Cadmium and Lead in a Stream Ecosystem,
W77-11533 1023 5B

Cyanide Mobility in Soils,
W77-11619 1023 5B

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Determination of Mercury in Fish from Rivers and Lakes in Hungary by Atomic Absorption Technique,
W77-12037 1023 5A

A Characterization of the Sources of Petroleum Hydrocarbons in Lake Washington,
W77-12043 1023 5B

BHC Residues of Domestic Origin: A Significant Factor in Pollution of Freshwater in Northern Ireland,
W77-12046 1023 5B

A Massive Kill of Pond-Reared Macrobrachium Rosenbergii,
W77-12050 1023 5C

Optimization and Evaluation of a Fluorescence Oil Spill Detector. Volume 2 - Prototype Design,
W77-12145 1023 5A

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

Effects of Outboard Marine Engine Exhaust on the Aquatic Environment,
W77-12248 1023 5B

Release and Sorption of Phosphorus by Sediments in a Moving Watercourse,
W77-12273 1024 5B

Fluorescence Tracing of the Flow and Dispersion of Sulfite Wastes in a Fjord System,
W77-12333 1024 5B

Materials Balance and Pollution Load -- Example from the Pulp and Paper Industry (Bilan matieres et flux de pollution -- example de l'industrie de la pate a papier),
W77-12345 1024 5B

WATER POLLUTION SOURCES

Ground-Water Quality Near a Sewage-Sludge Recycling Site and a Landfill Near Denver, Colorado,
W77-12382 1024 5B

Distribution of Manganese, Nickel, Zinc, Cadmium, and Arsenic in Sediments and in the Standard Elutriate,
W77-12574 1024 5A

Concepts in the Control of Nonpoint Water Pollution,
W77-12611 1024 5B

Nonpoint Sources: State-of-the-Art Overview,
W77-12614 1024 5G

Further Studies upon a Steel Works Effluent,
W77-12656 1024 5B

Method for Treating Septic Tank Effluent Seepage Beds and the Like,
W77-12688 1024 5D

The Environmental Effects of Dumping in the Oceans and Great Lakes.
W77-12899 1024 5G

WATER POLLUTION TREATMENT

Removal of Contaminants from Water,
W77-00687 1002 5G

Portable Water Sterilization Device,
W77-00688 1002 5F

Gravity Clarifier,
W77-00690 1002 5D

Treatment of Aqueous Waste Solution,
W77-00694 1002 5D

Process for the Treatment of Waste Water from a Fiberglass Manufacturing Process,
W77-00695 1002 5D

Method and Apparatus,
W77-00696 1002 5D

Effluent Treatment,
W77-00697 1002 5D

Liquid Treatment Apparatus,
W77-00699 1002 5D

Detoxifying Industrial Wastewaters.
W77-00965 1002 5D

Paying to Pollute.
W77-00972 1002 5G

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

Sludge,
W77-01085 1003 5G

County and Municipal Pollution Control Facilities.
W77-01108 1003 6E

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Apparatus for Treating Liquids,
W77-01210 1003 5D

Waste Water Treatment,
W77-01217 1003 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Heavy Metal Adsorbent Process,
W77-01226 1003 5D

Process for Detoxification of Cyanides and Nitriles with Peroxygen Compounds,
W77-01227 1003 5D

Magnetization of Iron Chromium System,
W77-01709 1004 5D

Treatment of Condensates,
W77-01716 1004 5D

Fluidic Oil-Water Separator,
W77-01718 1004 5G

Oil Extractor,
W77-01719 1004 5G

Water Recycle Treatment System for Use in Metal Processing,
W77-01724 1004 5D

Process and Cyclone Reactor for Fire Decontamination of Industrial Waste Water Containing Organic and Refractory Mineral Impurities,
W77-01725 1004 5D

Apparatus for Removing Particles and Chemicals from a Fluid Solution,
W77-01737 1004 5D

Dewatering Process,
W77-01738 1004 5D

Modular Aerator and Separator Assembly for Sewage Treatment Facility,
W77-01743 1004 5D

Method of Biological Purification of Sewage,
W77-01746 1004 5D

Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Separation Chamber, Holding Tank, Drainage System,
W77-01750 1004 5D

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

Program for Preventing and Eliminating Oil Pollution of the Buffalo River,
W77-01782 1004 5A

Water Hyacinths and Alligator Weeds for Removal of Silver, Cobalt, and Strontium from Polluted Waters,
W77-02037 1004 5G

Surveying America's Lakes.
W77-02375 1005 5C

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Plywood, Hardboard and Wood Preserving Segment of the Timber Products Processing Point Source Category,
W77-02554 1005 5G

Contingency Plan for Spills of Oil and Hazardous Materials for Inland Waters of Region III.
W77-03700 1008 5G

Experiences in Closing the Water System in a Paper and Board Mill (Erfahrungen bei der Kreislaufschliessung einer Papier- und Kartonfabrik),
W77-03818 1008 5D

Device for Purifying Sewage,
W77-03869 1008 5D

Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

Wet Combustion of Organics,
W77-04957 1010 5D

Process for Insolubilizing Potentially Water Pollutable Wastes from Sodium or Ammonium Type Sulfur Dioxide Air Pollution Control Systems,
W77-04958 1010 5D

Process for Selective Removal and Recovery of Cyanide Values by Ion Exchange,
W77-04960 1010 5D

Treating Foul Refinery Waste Waters with Absorber Gas,
W77-04961 1010 5D

Apparatus and Process for Continuous Concentration and Washing of Solids from a Solids-Containing Fluid,
W77-04962 1010 5D

Sewage Treatment Apparatus,
W77-04965 1010 5D

Apparatus for Purifying Polluted Water,
W77-04966 1010 5D

Device for Extracting Liquid from Sludge,
W77-04968 1010 5D

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Treatment of Waste Rolling Oil,
W77-05663 1012 5D

Floating Device for Removing Refuse Situated on and Under a Water Surface,
W77-05668 1012 5G

Positive Progressive Biochemical Digestion of Organic Waste,
W77-06453 1013 5D

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Metal Cyanide Complex Compound Disposal,
W77-06457 1013 5D

Rigging System for an Endless Oil Mop,
W77-06459 1013 5G

The Removal of Organic Matter from Water Supplies by Ion Exchange,
W77-06760 1014 5F

Method of Filtering Oil from Liquids,
W77-08011 1016 5G

Moving Belt-Type Oil Skimmer with Propulsion Induced Flow, Method and Apparatus,
W77-08012 1016 5G

Precoat for Permeability Separation Systems,
W77-08259 1017 5D

Pump-Filter for Bilge Water,
W77-08261 1017 5G

Liquid Waste Treatment Apparatus,
W77-08263 1017 5D

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Polluted Water Purification,
W77-08890 1018 5D

Method for Purifying Waste Waters which Contain Anionic-Type Organic Compounds,
W77-08891 1018 5D

A Biodegradation of Oil on Water Surfaces,
W77-08909 1018 5G

Agents, Methods and Devices for Amelioration of Discharges of Hazardous Chemicals on Water,
W77-08910 1018 5G

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

Studies on the Reclamation of Stone Lake, Michigan,
W77-09605 1020 5G

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Aerating Apparatus,
W77-09819 1020 5G

Liquid Filtering Apparatus,
W77-09820 1020 5D

Reducing Coke Plant Effluent,
W77-10922 1022 5D

Trough Creek Limestone Barrier Installation and Evaluation,
W77-10943 1022 5G

Process for the Treatment of Acidic Waste Liquid Containing Dissolved Salts,
W77-11003 1022 5D

Method for Preventing Gelation of Thermosetting Resins in Waste Water,
W77-11004 1022 5D

Process for Emergency Small Spill Control,
W77-11005 1022 5G

Apparatus for Removal of Oil Films from Water,
W77-11007 1022 5G

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Apparatus for Disposal of Effluents,
W77-11017 1022 5D

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-11018 1022 5G

Decontaminating Lake Superior of Asbestos Fibers,
W77-11539 1023 5D

Removal of Mercury from Aqueous Solutions Employing Naval Stores Products,
W77-11916 1023 5D

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

Treatment of Pulp Mill Effluents,
W77-11923 1023 5D

Waste Treatment of Fluoroborate Solutions,
W77-11924 1023 5D

Recycle Treatment of Waste Water from Nickel Plating,
W77-11929 1023 5D

Method of Packing Media in a Tower or Bed,
W77-12684 1024 5D

Oil Pick Up Device,
W77-12691 1024 5G

Aerated Sewerwage (sic) Effluent Disposal System,
W77-12693 1024 5D

Rotating Multitube Biocontactor for Treating Sewage,
W77-12700 1024 5D

Oil-Water Separation Apparatus,
W77-12702 1024 5G

Sealed Sedimentation Device,
W77-12704 1024 5D

Waste Water Treatment Apparatus,
W77-12937 1024 5D

WATER PONDING

Erosion Control,
W77-04315 1009 4D

WATER PRESSURE

Method of Simultaneous Determination of Water Conductivity of Soils and Plants, (In Russian),
W77-00512 1001 2I

The Effects of Pressure on Domestic Water Supply Including Observations on the Effect of Limited Garden-Watering Restrictions During a Period of High Demand,
W77-01360 1003 3D

On the Use of Tensiometers in Snow Hydrology,
W77-09123 1019 2C

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

WATER PROFILE SAMPLER

A Simple Tube-Type Water Profile Sampler,
W77-00641 1002 5A

WATER PROPERTIES

Wonderful Water (Wonderlike Water), (In Afrikaans),
W77-01486 1003 2K

Some Aspects of Nuclear Spin Relaxation of Adsorbed Water Protons in Biological Matrices, (In Russian),
W77-01563 1004 5A

Some Aspects of Nuclear Spin Relaxation of Water Adsorbate Protons in Biological Matrices, (In Russian),
W77-01564 1004 5A

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

Analytic Equation of State for Sea Water,
W77-03770 1008 1B

Partial Molal Volumes of Some Major Ions in Seawater,
W77-04766 1010 2K

Hydrologic Optics. Volume I. Introduction,
W77-07956 1016 1A

Hydrologic Optics, Volume II. Foundations,
W77-07957 1016 1A

Hydrologic Optics. Volume III. Solutions,
W77-07958 1016 1A

Hydrologic Optics. Volume IV. Imbeddings,
W77-07959 1016 1A

Hydrologic Optics. Volume V. Properties,
W77-07960 1016 1A

The Use and Misuse of Pure Water PVT Properties for Lake Waters,
W77-08840 1018 2H

Interactions Between Population Density and Water Quality Parameters During a Dinoflagellate Bloom,
W77-09494 1019 5C

A DSC (Differential Scanning Calorimetry) Study of Heat Capacity of Vicinal Water in Porous Materials,
W77-09734 1020 1B

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

Growth Rate of an Ice Crystal in Subcooled Pure Water,
W77-10796 1021 1A

Apparatus for Determining Salinity of Fluids,
W77-12687 1024 1A

WATER PROTONS

Some Aspects of Nuclear Spin Relaxation of Adsorbed Water Protons in Biological Matrices, (In Russian),
W77-01563 1004 5A

WATER PURIFICATION

Removal vs Benefits: It Can Be Too Costly,
W77-00044 1001 5D

Role of the Mussel in Purifying Sea Water of Petroleum Products (In Experiment), (In Russian),
W77-00418 1001 5G

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

Portable Water Sterilization Device,
W77-00688 1002 5F

Gravity Clarifier,
W77-00690 1002 5D

Influence of Sizing Agents and Printing Thickeners on Bio-Chemical Water Purification,
W77-00760 1002 5D

Method and Apparatus for the Purification of a Liquid Contaminated with Radioactive Substances,
W77-01216 1003 5D

Method for Using Macroamine Polymers as Flocculating Agents,
W77-01218 1003 5D

Ultraviolet Water Purifier,
W77-01234 1003 5F

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

Filter, Especially for Back Water,
W77-01720 1004 5D

Process for Purifying Tap Water,
W77-01726 1004 5F

Method of Disinfecting Water,
W77-01734 1004 5F

Dewatering Process,
W77-01738 1004 5D

Liquid Treating System,
W77-01739 1004 5F

Purification of Industrial Waste Waters by Flotation,
W77-01740 1004 5D

Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Method of Biological Purification of Sewage,
W77-01746 1004 5D

Ion Exchange Regeneration,
W77-01748 1004 5F

Process for the Purification of Industrial Effluents,
W77-01757 1004 5D

Apparatus for the Purification of Effluent,
W77-01760 1004 5D

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

The Role of Mollusks as Benthos Components in Purification of Water Bodies from Ascaris Suum Eggs, (In Russian),
W77-02230 1005 5G

The Role of Solar Ultraviolet Radiation in 'Natural' Water Purification,
W77-02552 1005 5D

Silica in Water in Relation to Cooling Tower Operation,
W77-02875 1006 5D

Chemical Composition and Methods for Purifying Phenolic Waste Waters Resulting from Rapid Thermolysis of Lignites of the Irsha-Borodino and Moscow Regions,
W77-02993 1006 5D

Specific Role of Lime in Municipal Waste Water Treatment-Expectations and Reality (Die Spezifische Rolle Des Kalks in Der Kommunalen Abwasserreinigung-Erwartungen Und Realitaeten),
W77-03422 1007 5D

Nature Preservation Activity RR Investigation: Part 6. A Modified Method of Measuring the Chemical Oxygen Demand Gives a High Analytical Capacity, (In Swedish),
W77-03589 1007 5A

Device for Purifying Sewage,
W77-03869 1008 5D

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

Study on the Purification of Sewage Water in Soils of Western Siberia, (In Russian),
W77-04090 1008 5G

The Metazoan Fauna of a Sewage-Carrying Wadi, Nahal Soreq (Judean Hills, Israel),
W77-04343 1009 5C

Waste Water Purification-Using Super-Paramagnetic Dispersed Ion-Exchanger in Constant Magnetic Field,
W77-04672 1010 5D

Stirring Apparatus for Waste Water Purification - By Injection of Gas in Biological Treatment Tank,
W77-04683 1010 5D

Technical Assistance for Operators of Purification Plants in the Seine-Normandie Basin (Assistance Technique Aux Exploitants Des Stations D'Epurations Dans Le Bassin Seine-Normandie),
W77-04686 1010 5D

Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

Gravity Filtering Equipment,
W77-04967 1010 5F

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

Method and System for Purifying Liquid,
W77-05655 1012 5D

Purification of Waste Waters from the Manufacture of Rag Pulp-Containing Paper (Ochistka stochnykh vod ot proizvodstva bumagi s ispol' zovaniem tryapichnoi polumassy),
W77-05683 1012 5D

Carbon Filter for Removing Therapeutants from Hatchery Water,
W77-05892 1012 5C

Polluted Water Purification,
W77-06110 1013 5D

Purification Plants of the Carrousel Type for the Purification of Communal, Trade and Industrial Waste Water (Klaeranlagen vom Typ Carrousel fuer die Reinigung Kommunaler, Gewerblicher und Industrieller Abwaesser),
W77-06124 1013 5D

Renovation of Waste Water,
W77-07004 1014 5D

The Fabric-Lined Purification Basin.
W77-07035 1014 5D

Purifying Water,
W77-07061 1014 5D

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Fifty Million Dollars Is a Lot of Fish,
W77-07219 1015 5D

Purification of Industrial Waste Water Containing Organic Impurities--By Contacting with Adsorbent Polymer Material in Solvated Gel State.
W77-07222 1015 5D

Influence of an Ozonisation Plant on the Bacterial Content in Water of a Demonstration Aquarium,
W77-07311 1015 5C

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Lakes Will Take the Pollution Load Off Old Father Tame,
W77-07913 1016 5G

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

Thermocompression-Type Apparatus for Desalting Saline Water,
W77-08252 1017 3A

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

Application of Corrugated Sheet Sprayers for Water Purification (Die Anwendung von Wellbahnrieslern in der Wasseraufbereitung),
W77-08543 1017 5F

Effluent Emphasis Underlines Environmental Effort at Enpocon,
W77-08579 1017 5D

Oxygen Injection for Bath's Sewers,
W77-08599 1017 5D

Method for Purifying Water of Organic Compounds Not Readily Biodegradable,
W77-08883 1018 5D

Method and Apparatus for Purifying Aqueous Streams Contaminated with Organic Materials,
W77-08889 1018 5D

Polluted Water Purification,
W77-08890 1018 5D

Water System Virus Detection,
W77-09636 1020 5A

Treatment of Denim Textile Mill Wastewaters: Neutralization and Color Removal,
W77-09724 1020 5D

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Water Purifying Systems,
W77-09808 1020 5F

Method for Treating Effluent Resulting from the Manufacture of Synthetic Dyestuffs and Related Intermediate Chemicals,
W77-09816 1020 5D

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Aerating Apparatus,
W77-09819 1020 5G

Waste Water Biochemical Purification Control--By Automated Determination of Carbon Dioxide Concentration with Barium Hydroxide Solution.
W77-09845 1020 5D

Chemical Treatment of Sewage,
W77-09892 1020 5D

Microflotation in Effluent Purification (Mikroflotation in der Abwasseraufbereitung),
W77-09899 1020 5D

Holozoic Nutrition of the Ciliated Protozoa: Its Consequences in the Natural and Artificial Purification of Water, (In French),
W77-10708 1021 5C

Water Pollution and Human Health,
W77-10751 1021 5C

Safe Drinking Water Act of 1974--History and Critique,
W77-10923 1022 5G

Water Filter Device,
W77-10993 1022 5F

Process for the Purification of Waste Waters with Activated Carbon,
W77-11012 1022 5D

Ozone Oxidation of Waste Water,
W77-11014 1022 5D

Reactor for Purification of Water by Fluid Filtration,
W77-11016 1022 5F

Process for Scale Inhibition,
W77-11021 1022 5F

Traditional Methods of Water Purification in the Riverain Sudan in Relation to Geographic and Socioeconomic Conditions,
W77-11620 1023 5D

Effluent Purification by Biological Rotary Contactor--Which Is Rotated by Air Which Displaces Liquid from Radial Pockets.
W77-11686 1023 5D

Guidelines for the Quick Evaluation of the Sewage Purification Process with Activated Sludge (Przewodnik dla szybkiej oceny przebiegu oczyszczania sciekow osadem czynnym. Czesc. III. Organizmy rzadziej spotykane),
W77-11726 1023 5D

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewater,
W77-12139 1023 5D

Purification of Natural Water in Clarifiers with Suspended Filter (Ochistka prirodnoi vody v osvetlitelyakh so vzveshennym fil'trom),
W77-12358 1024 5F

Method of Packing Media in a Tower or Bed,
W77-12684 1024 5D

Containerized Water Refiner Exchange System,
W77-12685 1024 5F

Water Filter,
W77-12689 1024 5F

Water Purifier,
W77-12690 1024 5F

Membrane Filter System,
W77-12695 1024 5F

Apparatus for Clarification of Waste Water Operating on Dissolved Air Flotation Process,
W77-12703 1024 5D

Germicidal Solutions and Methods for Preserving and Purifying Milk, Other Beverages, Foods, Water and Sewage Effluent,
W77-12928 1024 5D

Sewage Clarifier System,
W77-12933 1024 5D

WATER QUALITY

The Use of Continuous Simulation in the Evaluation of Water Quality Management Plans,
W77-00001 1001 5G

Impact of Land Disposal of Sludges on Groundwater,
W77-00031 1001 5B

Wastewater Ozonation: A Process Whose Time Has Come,
W77-00099 1001 5D

Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

Biological Assessment of Water Quality in Three British Rivers: The North ESK (Scotland), The Ivel (England) and the TAF (Wales),
W77-00108 1001 5A

OR Data Base Interface--An Application to Pollution Control,
W77-00116 1001 5G

Optimization of State Water Quality Monitoring Systems,
W77-00120 1001 5G

Agricultural Runoff as a Source of Halomethanes in Drinking Water,
W77-00163 1001 5B

The Physical Oceanography and Water Quality of New York Harbor and Western Long Island Sound,
W77-00273 1001 5G

State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

The Importance of Bacteriological Investigations for the Classification of flowing Water Bodies, Demonstrated on the Austrian Part of the Danube, (In German),
W77-00407 1001 5A

Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

Water Resources Data for Alabama, Water Year 1975.
W77-00435 1001 7C

Suitability of Containers for Storage of Water Samples,
W77-00436 1001 5A

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

Qualitative Composition of the Suspended Sediments of the Ordzhonikidze Irrigation System, (In Russian),
W77-00497 1001 2J

An Investigation into the Effect and Cause of Eutrophication in Georgetown Lake, Montana,
W77-00536 1002 5C

Physical Fundamentals of the Mixing of Solutions of Pollutants and Sewage in Porous Media,
W77-00554 1002 5B

Municipal Watershed Management Survey,
W77-00608 1002 5B

Development of Water Quality Sampling Programs,
W77-00618 1002 5A

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

Evaluating Impact of Forest Site Preparation on Soil and Water Quality in the U.S. Gulf Coastal Plain,
W77-00740 1002 5B

Environmental Management in the Malibu Watershed: Institutional Framework,
W77-00769 1002 6G

Guide Plan Report, Androscoggin River Basin, Maine and New Hampshire, Regional and Interstate Overview.
W77-00774 1002 6B

Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

Analysis of Historical Water-Quality Data and Description of Plan for a Sampling Network in Central and Southern Florida,
W77-00858 1002 5A

Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

Geology and Ground-Water Resources of Camden County, New Jersey,
W77-00866 1002 2F

Sources of Arsenic in Streams Tributary to Lake Crowley, California,
W77-00867 1002 5B

Nonpoint Pollution: An EPA View of Areawide Water Quality Management,
W77-00959 1002 5G

Sanitary and Hygienic Evaluation of the Quality of Underground Drinking Water, (In Russian),
W77-01023 1002 5B

Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay,
W77-01061 1002 5C

Modeling Phytoplankton Blooms in a Stratified Embayment,
W77-01163 1003 5C

Non-Point Source Contributions to Water Quality Problems,
W77-01173 1003 5B

The Modelling and Control of Pollution in a River System,
W77-01175 1003 5B

Wildlife and Oil Shale, A Problem Analysis and Research Program. Volume II, Appendix.
W77-01236 1003 5C

Mathematical Analysis of the Chemical System 'Cyanide-Heavy Metals' in Water-Determination of Components and Toxicity of the System-II, Solution by Computer,
W77-01260 1003 5B

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

Chemical and Physical Characteristics of Water in Estuaries of Texas, October 1971-September 1973,
W77-01416 1003 5B

Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1974,
W77-01419 1003 7C

Acute Toxicity of Chlorine to Selected Estuarine Species,
W77-01508 1003 5C

Agricultural Waste Management Field Manual.
W77-01535 1003 5D

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W77-01537 1003 5D

Quality of Ground Water in the Coastal Aquifer Near Visakhapatnam, India,
W77-01626 1004 5B

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Planning for Regional Waste Water Systems,
W77-01690 1004 5D

The Effect of Park Use on Surface Water Quality,
W77-01692 1004 5C

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Connecticut River Basin Program. Phase II. Water Quality Impact Evaluations on Flood Protection Measures for the Connecticut River Supplemental Study.
W77-01695 1004 5G

Inland Water Pollution.
W77-01697 1004 5G

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Beneficial Use of Thermal Effluent in Lobster Culture,
W77-01707 1004 5C

Monitoring Ground-Water Quality: Methods and Costs,
W77-01771 1004 5B

Monitoring Groundwater Quality: Data Management,
W77-01773 1004 5B

Procedures Manual for Monitoring Solid Waste Disposal Sites,
W77-01774 1004 5B

ESOO1: Verification of Model for New York Harbor,
W77-01791 1004 5G

Water Quality Baseline Assessment for Cleveland Area--Lake Erie. Vol. II - The Fishes of the Cleveland Metropolitan Area Including the Lake Erie Shoreline,
W77-01807 1004 5C

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-01909 1004 3C

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Rio Grande,
W77-01956 1004 5G

Water Quality Analysis, The Potomac River.
W77-01968 1004 5G

Environmental Impact Assessment, Water Quality Analysis, S. California Bight.
W77-01969 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Hawaii.
W77-01970 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Puerto Rico.
W77-01971 1004 5G

Environmental Impact Assessment, Water Quality Analysis, South Platte.
W77-01972 1004 5G

Environmental Impact Assessment, Water Quality Analysis, Susquehanna River.
W77-01973 1004 5G

Environmental Impact Assessment, Water Quality Analysis, St. John River (Maine).
W77-01977 1004 5G

Nitrogen and Phosphorus Uptake in the Everglades Conservation Areas, Florida, with Special Reference to the Effects of Backpumping Runoff,
W77-02012 1004 5B

Chemical and Biological Quality of Water in Part of the Everglades, Southeastern Florida,
W77-02013 1004 5B

Indexes Associated with Information Theory in Water Quality,
W77-02025 1004 5A

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Evaluation of Three Collecting Methods for a Reconnaissance of Stream Benthic Invertebrates,
W77-02028 1004 5A

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

Hygienic Problems of Forecasting the Quality of Water Resources, (In Russian),
W77-02071 1004 5G

Wastewater Storage-Simulation of Instream Effects,
W77-02074 1004 5B

Equity Measures for Exploring Water Quality Management Alternatives,
W77-02075 1004 5G

Evaluation of the Ring Oven Technique for Water Monitoring, Appendices,
W77-02149 1005 5A

Characterization of Urban Runoff,
W77-02180 1005 5B

Water Pollution Investigation: Duluth-Superior Area,
W77-02202 1005 5B

Water Quality Impacts of Uranium Mining and Milling Activities in the Grants Mineral Belt, New Mexico,
W77-02208 1005 5G

Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

Project Development and Data Programs for Assessing the Quality of the Willamette River, Oregon,
W77-02301 1005 2E

Predicted and Observed Temperature and Water-Quality Changes of Lakes and Reservoirs,
W77-02304 1005 2H

Reconnaissance of Ground-Water Resources of the Squaxin Island Indian Reservation, Washington,
W77-02308 1005 4B

Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

Maps Showing Ground-Water Conditions in the Lower Big Chino Valley and Williamson Valley Areas, Yavapai and Coconino Counties, Arizona,
W77-02312 1005 7C

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Hydrology of Lake County, Florida,
W77-02316 1005 4B

A Bivariate-Regression Model for Estimating Chemical Composition of Streamflow or Groundwater,
W77-02317 1005 5B

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

Modeling Coliform-Bacteria Concentrations and pH in the Salt-Wedge Reach of the Duwamish River Estuary, King County, Washington,
W77-02324 1005 5B

Minneapolis-St. Paul: Land of the 'Shining Big-Sea-Waters',
W77-02351 1005 5D

National Environmental Statistical Report,
W77-02447 1005 7C

An Evaluation of Water Quality Information: A Case Study of Streams in Metropolitan New Jersey,
W77-02448 1005 5A

Monitoring Water Quality From LANDSAT.
W77-02494 1005 5A

Remote Sensing of Effects of Land-Use Practices on Water Quality,
W77-02497 1005 5A

Multidisciplinary Application of LANDSAT-2 Data to Marine Environment in Central Japan,
W77-02498 1005 2L

SKYLAB Study of Water Quality,
W77-02505 1005 5A

Some Effects of the Aswan High Dam on Water and Fishes of Lake Borullus, A. R. E.,
W77-02512 1005 5C

Old Answers to 'New' Problems: Henry George, Property Rights and Environmental Quality,
W77-02539 1005 6B

Survey of Macroinvertebrate Communities in the Provo River and Diamond Fork Systems,
W77-02548 1005 5C

Graphical Interpretation of Water Quality Data,
W77-02592 1006 5A

Pesticide Residue Analysis in Water (103.1), Training Manual,
W77-02624 1006 5A

Proceedings of: National Conference on Health, Environmental Effects, and Control Technology of Energy Use.
W77-02649 1006 5G

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

Freshwater Ecological Effects,
W77-02657 1006 5G

The EPA Research Program on the Freshwater Ecological Effects of Energy Development and Use,
W77-02658 1006 5G

Biscayne Bay and its Environs. An Analysis of Its Present and Future Uses for Metropolitan Dade County,
W77-02680 1006 5G

Effects of Baled Solid Waste Disposal in the Marine Environment--A Descriptive Model,
W77-02683 1006 5B

The Smith Mountain - Leesville Project: A Case History,
W77-02715 1006 5C

Studies on the Chemical Behavior of 106-Ru in Sea Water and its Uptake by Marine Organisms -I, Accumulation and Excretion of 106-Ru by Clam,
W77-02722 1006 5C

Avoidance of Lime-Neutralized Iron Hydroxide Solutions by Coho Salmon in the Laboratory,
W77-02725 1006 5C

Effects of Pulpwood Harvesting on the Quality of Stream Waters of Forest Catchments Representing a Large Area in Western Alberta, Canada,
W77-02774 1006 5B

The Role of Forest Stands in the Control of Erosion Processes and Other Negative Natural Phenomena,
W77-02785 1006 4D

Rex, A Computer Controlled Robot for in Situ Water Quality Monitoring,
W77-02814 1006 5A

Environmental Inventory and Assessment of Navigation Pools 24, 25, 26, Upper Mississippi and Lower Illinois Rivers: An Aquatic Analysis,
W77-02826 1006 5A

Control and Monitor Instrumentation for Must Water Processing Element, Final Report,
W77-02878 1006 5A

Environmental Measurements of Air and Water Quality,
W77-02880 1006 5A

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Falls Lake Water-Quality Study; Hydraulic Laboratory Investigation,
W77-02941 1006 5B

B. Everett Jordan Lake Water-Quality Study,
W77-02954 1006 5B

Hydrologic Studies of the U.S. Geological Survey Related to Coal Development in Colorado.
W77-02970 1006 5G

A Reconnaissance of the Effects of a Forest Fire on Water Quality in Kings Canyon National Park, California,
W77-02973 1006 5B

Records of Wells and Water Quality for the Garber-Wellington Aquifer, Northern Oklahoma and Southern Logan Counties, Oklahoma,
W77-02974 1006 4B

Preliminary Results of Preimpoundment Water-Quality Studies in the Tioga River Basin, Pennsylvania and New York,
W77-02977 1006 5B

A Water-Quality Assessment of the Burnham Creek Watershed, Polk County, Minnesota,
W77-02979 1006 5B

An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

Water-Resources Data for Deep Aquifers on Eastern Montana,
W77-02985 1006 7C

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

Analysis and GC-MS Characterization of Toxaphene in Fish and Water,
W77-03005 1006 5A

Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

Results from Aquatic Ecological Surveys at Newport Army Ammunition Plant, Newport, Indiana,
W77-03015 1006 5C

Purging a Muddy-Earthy Flavor Taint from Rainbow Trout (Salmo Gairdneri) by Transferring to Artificial and Natural Holding Environments,
W77-03023 1006 5G

Surf-Zone Water Quality in Liverpool Bay,
W77-03092 1007 5B

Impacts of the Deposition of Dredged Spoils on Lake Erie Sediment Quality and Associated Biota,
W77-03094 1007 5C

Environmental Impact of Land Use on Water Quality, Progress Report,
W77-03106 1007 5G

The Relationship of Bottom Sediments to Bacterial Water Quality in a Recreational Swimming Area,
W77-03167 1007 5B

Trace Hydrocarbon Analysis in Previously Studied Matrices and Methods Development for: (A) Trace Hydrocarbon Analysis in Sea Ice and at the Sea Ice-Water Interface, (B) Analysis of Individual High Molecular Weight Aromatic Hydrocarbons,
W77-03219 1007 5A

Environmental Assessment of Alaskan Waters - Trace Element Methodology - Inorganic Elements,
W77-03220 1007 5A

Distribution of Light Hydrocarbons, C1-C14, in the Northeast Gulf of Alaska and the Southeastern Bering Shelf,
W77-03221 1007 5B

Natural Distribution of Trace Heavy Metals and Environmental Background in Three Alaska Shelf Areas,
W77-03222 1007 5B

Incidence of Pathology of Marine Fish Diseases in the Gulf of Alaska, Bering Sea, and Beaufort Sea,
W77-03226 1007 5B

Development and Operation of HF Current-Mapping Radar Units-Physical Oceanography,
W77-03227 1007 5B

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

Computer Mapping of Water Quality in Saginaw Bay with Landsat Digital Data,
W77-03305 1007 5A

Allatoona Lake, Destratification Equipment Test Report.
W77-03306 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix A, Operational and Water Quality Data, 1968.
W77-03307 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix B, Operational and Water Quality Data, 1969.
W77-03308 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix C, Operational and Water Quality Data, 1970.
W77-03309 1007 5G

Allatoona Lake, Destratification Equipment Test, Appendix D, Effects of Artificial Destratification on Temperature and Dissolved Oxygen in Allatoona Reservoir.
W77-03310 1007 5G

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

Ground-Water Quality Data for Georgia,
W77-03333 1007 7C

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

Chemical and Bacteriological Quality of Water at Selected Sites in the San Antonio Area, Texas, August 1968 - January 1975,
W77-03343 1007 5A

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

Water Quality Simulation of Tahoe-Truckee System, Nevada-California - Volume II - Appendices,
W77-03351 1007 5A

Analytical Studies for Assessing the Impact of Sanitary Sewage Facilities of Delaware County, Ohio,
W77-03353 1007 5D

Water Pollution Surveillance in the United States. Report Number 1, Missouri River Main Stem, 1958-1962.
W77-03379 1007 5A

Groundwater Quality Adjacent to a Septic Tank System,
W77-03456 1007 5D

Monitoring of Community Water Supplies,
W77-03463 1007 5A

Colorado Water Quality Control Act.
W77-03490 1007 6E

Water Quality, Plankton and Eutrophication of Bergsvatnet, Eikeren and Fiskumvatnet, S. Norway, (In Norwegian),
W77-03595 1007 5C

The Effect of the Central Arizona Project on the Thermal Structure of Lake Havasu,
W77-03624 1008 2H

A Mathematical Model for Water Quality Evaluation in the South Carolina Grand Stand,
W77-03731 1008 5B

The Effects of Agricultural Run-off and Siltation on a New Recreational Lake,
W77-03766 1008 5B

Water Pollution Investigation: Detroit and St. Clair Rivers.
W77-03783 1008 5G

Effects of Forest Cultural Treatments Upon Streamflow,
W77-03795 1008 4C

Water Quality Monitoring: Kaneohe Bay and Selected Watersheds July to December 1975,
W77-03826 1008 5B

Water Problems in the Colorado River Basin: Legal and Institutional Framework,
W77-03830 1008 5G

A Mathematical Model for Simulating Water Quality Under Non-Steady State Conditions,
W77-03831 1008 5B

An Investigation into the Effects of Forestry Plantations on the Water Quality of Upland Reservoirs in Northern Ireland,
W77-03840 1008 5B

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

Water Availability, Quality, and use in Alaska.
W77-03883 1008 6B

Water Resources Data for Nebraska, Water Year 1975,
W77-03885 1008 7C

Ground-Water Resources and Geology of Jefferson County, Wisconsin,
W77-03889 1008 4B

Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

Establishment of Operational Guidelines for Texas Coastal Zone Management. Special Report I: Water quality Modelling and Management Studies for Corpus Christi Bay: A large System Approach,
W77-03898 1008 5B

Analysis of Pollution from Marine Engines and Effects on the Environment. Southern Lakes,
W77-03900 1008 5C

Coastal Marine Pollution and Fish,
W77-03902 1008 5C

Nonpoint Sources of Pollution: A Federal Perspective,
W77-04017 1008 5G

Preference Models of Environmental Impact,
W77-04020 1008 6G

Demonstration of a State Water Quality Management Information System,
W77-04021 1008 5G

Bacteriological Characteristics of the Coast Waters in the District of Catania (Italy), (In Italian),
W77-04084 1008 5G

Monitoring Groundwater Quality: Economic Framework and Principles,
W77-04113 1009 5A

Workshop Report Integrating Water Quality and Water and Land Resources Planning.
W77-04202 1009 6B

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Ground-Water Resources of the Barre-Montpelier Area, Vermont,
W77-04222 1009 4B

Water Resources of South-Central Missouri,
W77-04223 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 2. Susquehanna and Potomac River Basins.
W77-04228 1009 7C

Water Resources of the Big Fork River Watershed, North-Central Minnesota,
W77-04233 1009 7C

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

Geology and Ground-Water Resources of Northern Mercer County, Pennsylvania,
W77-04239 1009 2F

Water Resources Data for Pennsylvania, Water Year 1975--Volume 1. Delaware River Basin.
W77-04242 1009 7C

Water Resources Data for Pennsylvania, Water Year 1975--Volume 3. Ohio River and St. Lawrence River Basins.
W77-04243 1009 7C

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Hydrology of Saline Seeps in the Northern Great Plains,
W77-04268 1009 5G

Some Thermal and Biological Effects of Forest Cutting in West Virginia,
W77-04273 1009 5C

Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada,
W77-04275 1009 2K

Explaining Variations in Cardiovascular Disease Mortality Within a Soft Water Area,
W77-04295 1009 5C

Garrison Diversion Unit Irrigation Project: Prospects and Problems, Part 2.
W77-04365 1009 6E

Effects of Controlled Spilling at Chief Joseph Dam on Dissolved Nitrogen Supersaturation in the Columbia River,
W77-04441 1009 5C

Cleaner: The Lake George Model,
W77-04495 1009 6G

Fish Population Models: Potential and Actual Links to Ecological Models,
W77-04500 1009 6G

Evaluation of Water Quality Models: A Management Guide for Planners,
W77-04507 1009 5G

Mathematical Models,
W77-04523 1009 6A

Hydrology and Water Quality in the Central Kentucky Karst: Phase I,
W77-04602 1010 5B

Impact of Fertilizers and Agricultural Waste Products on the Quality of Waters.
W77-04629 1010 5B

Environmental Impact of Urban Stormwater Runoff,
W77-04731 1010 5B

Impact of Stormwater Runoff on Receiving Water Quality,
W77-04734 1010 5B

Introduction to Urban Stormwater Runoff Models,
W77-04735 1010 5B

The WRE Storm Model,
W77-04737 1010 5B

Detection of Trends in Water Quality Data from Records with Dependent Observations,
W77-04753 1010 5A

Monitoring Cyclic Fluctuations in Ground-Water Quality,
W77-04760 1010 5B

State of Delaware New Castle County River Basin, Water Quality Management Plan.
W77-04856 1010 5G

State of Delaware Sussex County River Basin, Water Quality Management Plan.
W77-04857 1010 5G

Connecticut River Basin Program. Part III, Phase I. Water Quality Reconnaissance for the Connecticut River Supplemental Study.
W77-04871 1010 5G

Land and Water Use Impacts on Ground-Water Quality in Las Vegas Valley,
W77-04891 1010 5B

Water Quality and Bathymetry of Sand Lake, Anchorage, Alaska,
W77-04970 1010 7C

Maps Showing Ground-Water Conditions in the Concho, St. Johns, and White Mountains Areas, Apache and Navajo Counties, Arizona--1975,
W77-04971 1010 7C

Water Resources Data for Colorado, Water Year 1975--Volume 1. Missouri River Basin, Arkansas River Basin, Rio Grande Basin.
W77-04975 1010 7C

Water Resources Data for California, 1974: Part 2. Water Quality Records.
W77-04976 1010 7C

Graphic and Analytical Methods for Assessment of Stream-Water Quality--Mississippi River in the Minneapolis-St Paul Metropolitan Area, Minnesota,
W77-04984 1010 5A

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1973.
W77-05022 1010 2L

Areawide Planning Under the Federal Water Pollution Control Act Amendments of 1972: Intergovernmental and Land Use Implications,
W77-05050 1010 5G

Water Resources Service Dissolved Gas Study: Interim Data Summary,
W77-05080 1010 5C

Report on the Results of a Monitoring Programme for Dissolved Gases in the Fraser River and Peace River Systems, 1974,
W77-05082 1010 5C

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

A Water Quality Data Report of the Coordinated Monitoring Program. Methods and Data for 1974.
W77-05208 1011 2L

Aquatic Algae as a Diffuse Source of Bacterial Contamination in Natural Waters,
W77-05211 1011 5A

Evaluating Water Quality Impacts of Small Streams on Major Urban Rivers,
W77-05249 1011 5C

Water-Quality Characteristics of Six Small Lakes in Missouri,
W77-05259 1011 5B

Major Carbon 14 Anomaly in a Regional Carbonate Aquifer: Possible Evidence for Megascale Channeling, South Central Great Basin,
W77-05261 1011 2F

Guidelines for Collection and Field Analysis of Ground-Water Samples for Selected Unstable Constituents,
W77-05262 1011 2K

Water Resources Data for California, Water Year 1975--Volume 4. Northern Central Valley Basins and the Great Basin From Honey Lake Basin to Oregon State Line,
W77-05263 1011 7C

Water Resources Data for California, Water Year 1975--Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River,
W77-05264 1011 7C

Ground-Water Data for Leflore County, Mississippi,
W77-05265 1011 7C

Ground-Water Data for Humphreys County, Mississippi,
W77-05266 1011 7C

Ground-Water Data for Issaquena County, Mississippi,
W77-05267 1011 7C

Ground-Water Data for Quitman County, Mississippi,
W77-05268 1011 7C

Ground-Water Data for Coahoma County, Mississippi,
W77-05269 1011 7C

Ground-Water Data for Tate County, Mississippi,
W77-05270 1011 7C

Ground-Water Data for Tunica County, Mississippi,
W77-05271 1011 7C

Progress Report on Geology of the Edwards Aquifer, San Antonio Area, Texas, and Preliminary Interpretation of Borehole Geophysical and Laboratory Data on Carbonate Rocks,
W77-05277 1011 2F

Quality-of-Water Data, Palm Beach County, Florida 1970-1975,
W77-05279 1011 5A

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

Lakes of Oregon: Volume 4. Clackamas County,
W77-05283 1011 2H

Upper James River Basin Water Quality Management Plan.
W77-05294 1011 5G

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

Ground-Water Pollution Problems in the Northwestern United States,
W77-05307 1011 5B

Ground-Water Chemical Quality Management by Artificial Recharge,
W77-05364 1011 5A

A Characterization of Urban Stormwater Runoff in Boulder, Colorado,
W77-05369 1011 5B

Pollutional Characteristics of Urban Snowmelt Runoff,
W77-05370 1011 5B

Consumer Evaluation of the Quality and Cost of Domestic Water,
W77-05371 1011 5G

Supersaturation...Crisis on the Columbia and Snake Rivers,
W77-05417 1011 5C

Final Environmental Statement. Vol 2, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05537 1011 6G

Distribution and Abundance of Fish Populations in the Middle Wabash River,
W77-05583 1011 5C

Nitrification in an Aquatic Recirculation System,
W77-05631 1012 5C

A Laboratory Model for Evaluating the Behavior of Heavy Metals in an Aquatic Environment,
W77-05644 1012 5C

Water Quality Information Storage and Retrieval System for Hawaii, Final Report, Phase I and II, (July 1971-October 1973),
W77-05672 1012 5A

Water Quality Information Storage and Retrieval System for Hawaii, Phase III: Final Report, (November 1973-September 1974),
W77-05673 1012 5A

The Water Quality of Streamflow from Ponderosa Pine Forests on Sedimentary Soils,
W77-05734 1012 5B

The Environment of South Florida, A Summary Report,
W77-05738 1012 6G

Basic Data on Urban Storm-Water Quality, Portland, Oregon,
W77-05744 1012 5B

Water-Quality Investigation, Salinas River, California,
W77-05751 1012 5B

Chemical Quality of Ground Water in the Tehama-Colusa Canal Service Area, Sacramento Valley, California,
W77-05756 1012 5A

Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

Water Resources of Washtenaw County, Michigan,
W77-05759 1012 6D

Levels of Nitrogen Supersaturation at Chief Joseph Dam under Various Spill Conditions, Phase I,
W77-05776 1012 5C

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

Nearshore Distribution of Hawaiian Marine Fish Larvae: Effects of Water Quality, Turbidity and Currents,
W77-05839 1012 5C

Algal Growth Potential of Waste Water Effluents in Hawaiian Receiving Waters,
W77-05852 1012 5C

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

Quality Characteristics of Urban Storm Water in Sydney, Australia,
W77-05963 1012 5B

Tracer Measurement of Reaeration: III. Predicting the Reaeration Capacity of Inland Streams,
W77-05977 1012 5G

Grazing and Debris Burning on Pinyon-Juniper Sites--Some Chemical Water Quality Implications,
W77-05991 1012 5B

Vertical Diffusivities in Areally Averaged Models,
W77-05997 1012 5B

Water Quality as Related to Linears, Rock Chemistry, and Rain Water Chemistry in a Rural Carbonate Terrain,
W77-05998 1012 5B

Nonpoint Source Pollution from Agricultural Runoff,
W77-06003 1012 5B

The Effect of Coal Surface Mining on the Water Quality of Mountain Drainage Basin Streams,
W77-06012 1012 5B

Proceedings Mississippi Water Resources Conference 1976.
W77-06084 1012 4A

Bay Springs Lake Water Quality Study,
W77-06087 1012 5B

A Refresher on Sodium Hypochlorite.
W77-06142 1013 5D

How Much Pollution Control for What Price,
W77-06179 1013 5G

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

Quality of Underground Irrigation water in the Semi Arid Tract of Agra District,
W77-06249 1013 3C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

Water Resources Data for Louisiana, Water Year 1976--Volume 1. Central and Northern Louisiana.
W77-06326 1013 7C

Water Resources Data for Louisiana, Water Year 1976--Volume 2. Southern Louisiana.
W77-06327 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Southwest Alaska,
W77-06328 1013 7C

Index of Surface Water Quality Records to September 30, 1973, Northwest and Arctic Slope, Alaska,
W77-06329 1013 7C

Availability of Water Supplies in Northwest Georgia,
W77-06336 1013 4A

History of Dredging and Filling of Lagoons in the San Juan Area, Puerto Rico,
W77-06346 1013 5B

Water in a Limestone Terrane in the Bowling Green Area, Warren County, Kentucky,
W77-06347 1013 2F

Water in Carbonate Rocks of the Madison Group in Southeastern Montana--A Preliminary Evaluation,
W77-06349 1013 2F

Nutrient Budgets for Lake Erie, 1970,
W77-06351 1013 5C

Inland Lake Watershed Analysis,
W77-06356 1013 5G

Maine Lake Water Quality Strategy.
W77-06357 1013 5C

A Preliminary Account of Some Lakes at Different Altitudes in Southwest New Zealand,
W77-06385 1013 5C

Involving the Public in Limnology--An Approach to Communication,
W77-06392 1013 5G

Simulation of PO4-P Balance in a Shallow and Polluted River,
W77-06497 1013 5B

Benthic Infauna and Maintenance Dredging: A Case Study,
W77-06499 1013 2J

Organic Chemical Contaminants--Control Options in Drinking Water (Proposed).
W77-06557 1013 5G

People and the Sound. Water Management.
W77-06594 1013 6B

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

An Electronic System to Monitor the Effects of Changes in Water Quality on Fish Opercular Rhythms,
W77-06610 1014 5C

Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer,
W77-06658 1014 5B

Application of Landsat to the Surveillance and Control of Eutrophication in Saginaw Bay,
W77-06665 1014 5A

Computer Mapping of Landsat Data for Environmental Applications,
W77-06666 1014 5A

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

Monitoring Groundwater Quality: Illustrative Examples.
W77-06673 1014 5A

Water Chemistry and Water Quality,
W77-06778 1014 5A

Interstitial Water Chemistry of Anoxic Long Island Sound Sediments. 1. Dissolved Gases,
W77-06900 1014 5B

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Mississippi Sound Temporal and Spatial Distribution of Nutrients,
W77-06932 1014 5B

Algal Supplement Enhancement of Static and Recirculating System,
W77-06933 1014 5C

Environmental Pollution: Is There Enough Public Concern to Lead to Action,
W77-06955 1014 6G

Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

Canwel Can Do,
W77-06985 1014 5D

Purifying Water,
W77-07061 1014 5D

Water Quality Investigations in the South Platte River Basin, Colorado, 1971-72.
W77-07076 1014 5A

Comparison of Artificial and Natural Sea Water as Culture Media for Juvenile Lobsters,
W77-07118 1015 5C

An Industrial View of Biological Monitoring,
W77-07126 1015 5A

Quest for an Index of Community Structure Sensitive to Water Pollution,
W77-07136 1015 5A

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

Proceedings of the Annual Conference, April 20-23, 1975, Toronto, Ontario,
W77-07329 1015 5D

Major Aquifers in Deuel and Hamlin Counties, South Dakota,
W77-07483 1015 4B

Water Resources Data for California, Water Year 1975--Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River.
W77-07491 1015 7C

Water Resources Data for California, Water Year 1975--Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line Except Central Valley.
W77-07492 1015 7C

Water Quality and Aquitard Permeability,
W77-07551 1015 5G

Satellite Observations of Water Quality,
W77-07554 1015 5A

Water Quality Requirements of Fishes and Effects of Toxic Substances,
W77-07715 1016 5C

Mobile Fish Cage and Depth Distribution Studies, Columbia and Snake Rivers,
W77-07723 1016 5C

A Decision Support System for Area-Wide Quality Planning,
W77-07810 1016 6A

Extensions and Corrections for the CODASYL Approach to Data Base Management,
W77-07811 1016 6A

Implementation of a Decision Support for Regional Water Quality Planning,
W77-07812 1016 6A

Toxicity to Aquatic Organism and Chemistry of Nine Selected Waterborne Pollutants from Munitions Manufacture- A Literature Evaluation,
W77-07821 1016 5C

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Use of State Estimation Techniques in Water Resource System Modeling, by Dennis P. Lettenmaier and Stephen J. Burges,
W77-08035 1016 5B

Adjustment Costs and Optimal Waste Treatment,
W77-08045 1016 5G

Utilization of LANDSAT Data for Water Quality Surveys in the Choptank River,
W77-08072 1016 5A

Water Resources Data for Indiana, Water Year 1975,
W77-08162 1017 7C

Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

Water Resources of the Myakka River Basin Area, Southwest Florida,
W77-08167 1017 4B

Ground-Water Resources of Vanderburgh County, Indiana,
W77-08170 1017 4B

Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

Selected Hydrologic Data, Uinta Basin Area, Utah and Colorado,
W77-08183 1017 7C

Water Resources Data for Illinois, Water Year 1975,
W77-08184 1017 7C

Water Resources Data for Nevada, Water Year 1975,
W77-08185 1017 7C

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Quantitative Water Quality with Landsat and Skylab.
W77-08431 1017 5A

LANDSAT-1 Data as it has Been Applied for Land Use and Water Quality Data By the Virginia State Water Control Board,
W77-08432 1017 5A

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Trophic Status of Inland Lakes from LANDSAT,
W77-08434 1017 5A

The Use of LANDSAT-1 Imagery for Water Quality Studies in Southern Scandinavia,
W77-08435 1017 5A

Fox Chain of Lakes Investigation and Water Quality Management Plan,
W77-08442 1017 2H

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Water Quality in the Texas Coastal Basins,
W77-08465 1017 5B

The Eutaw-McShan Aquifer in Mississippi,
W77-08466 1017 7C

Water-Resources Investigations in South Dakota, 1976.
W77-08468 1017 7C

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Water Resources Data for Connecticut, Water Year 1975,
W77-08480 1017 7C

Water-Quality Records for Selected Reservoirs in Texas, 1974-75 Water Years,
W77-08483 1017 5A

Water Resources Data for New York, Water Year 1975.
W77-08485 1017 7C

Clearcutting in Pennsylvania,
W77-08712 1018 4C

Availability of Ground Water in the Middle Merrimack River Basin, Central and Southern New Hampshire,
W77-08733 1018 7C

Water Resources Data for Washington, Water Year 1975.
W77-08737 1018 7C

Water Resources Data for Montana, Water Year 1975.
W77-08738 1018 7C

Water for Industrial and Agricultural Development in Attala, Holmes, Humphreys, Issaquena, Sharkey, and Yazoo Counties, Mississippi,
W77-08748 1018 4B

The Residual Oxygen Bioassay: A Rapid Procedure to Predict Effluent Toxicity to Rainbow Trout,
W77-08766 1018 5A

Eutrophication of an Impounded Estuarine Lagoon,
W77-08778 1018 5C

Philadelphia's Water System Automation Plan,
W77-08864 1018 5F

Systematic Identification of DO-BOD Model Structure,
W77-08866 1018 5B

Reaeration and Velocity Prediction for Small Streams,
W77-08867 1018 5B

Induced Vertical Mixing in a Stratified Impoundment by a Subsurface Warm Water Discharge,
W77-08929 1018 5B

Computer Modeling for the Prediction of Water Quality from Agricultural Drainage,
W77-08934 1018 5B

Frequency of Organic Compounds Identified in Water,
W77-08944 1018 5A

Biscayne Bay Symposium II,
W77-08961 1018 5G

Say Goodbye to Ocean Dumping,
W77-08969 1018 5G

Chemical Character of Headwater Streams in Vermont and New Hampshire,
W77-09027 1018 2K

Nonlinear Estimation in Stream Quality Modeling,
W77-09047 1018 5B

Optimal Estimation in Stream Quality Modeling,
W77-09052 1018 5B

Limnological Investigation of Six Lakes in Southeast Alaska,
W77-09069 1018 7C

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

Water Resources Data for Mississippi, Water Year 1975.
W77-09074 1018 7C

Water Resources Data for North Dakota, Water Year 1975.
W77-09075 1018 7C

Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

Herbicides from Cropped Watersheds in Stream and Estuarine Sediments in Hawaii,
W77-09129 1019 5B

Simulation of Agricultural Runoff,
W77-09173 1019 5B

FEDBAK03 - A Computer Program for the Modelling of First Order Consecutive Reactions with Feedback Under a Steady State Multidimensional Natural Aquatic System,
W77-09176 1019 5B

Selecting the Proper Reaeration Coefficient for Use in Water Quality Models,
W77-09184 1019 5G

A Computer Modeling Study to Assess the Effects of a Proposed Marina on a Coastal Lagoon,
W77-09194 1019 5C

Economic Forecasting for Virginia's Water Resource Programs,
W77-09197 1019 6B

Data Collection for Water Quality Modeling in the Occoquan Watershed of Virginia,
W77-09211 1019 5A

Effects of Impoundment on Water and Sediment in the Arkansas River at Pueblo Reservoir,
W77-09224 1019 5B

Influence of Vegetation Management on Yield and Quality of Surface Runoff,
W77-09266 1019 4C

Proceedings of the Eighth Dredging Seminar.
W77-09325 1019 2L

Binghamton Wastewater Management Study: Preview.
W77-09379 1019 5G

Binghamton Wastewater Management Study: Summary.
W77-09380 1019 5G

Binghamton Wastewater Management Study: Background Information Appendix.
W77-09381 1019 5G

Binghamton Wastewater Management Study: Plan Formulation Appendix.
W77-09382 1019 5G

Binghamton Wastewater Management Study: Comments Appendix.
W77-09383 1019 5G

Binghamton Wastewater Management Study: Specialty Appendix.
W77-09384 1019 5G

Binghamton Wastewater Management Study: Design and Cost Appendix.
W77-09385 1019 5G

Binghamton Wastewater Management Study: Impact Assessment and Evaluation Appendix.
W77-09386 1019 5G

Binghamton Wastewater Management Study: Institutional Analysis Appendix.
W77-09387 1019 5G

A Methodology for Comparative Evaluation of Water Quality Indices,
W77-09632 1020 5A

Classifying and Monitoring Water Quality by Use of Satellite Imagery,
W77-09634 1020 5A

Logging Roads and Protection of Water Quality.
W77-09725 1020 5G

Forest Harvest, Residue Treatment, Reforestation, and Protection of Water Quality.
W77-09756 1020 5G

Effects of Log Handling and Storage on Water Quality,
W77-09760 1020 5C

Aquatic Field Surveys at Radford, Holston, Volunteer, and Milan Army Ammunition Plants, Volume IV - Milan, Final Report,
W77-09763 1020 5C

Polymer Addition Improves Waste Water Treatment Process,
W77-09878 1020 5D

A Mathematical Model for Water Quality in a Coastal Region in Terms of Sea Bottom Waste Deposits (Kaitei osenbusshitsu nado no eikyo o koryo shita kaiiki no suishitsu no yosoku-moderu no kaihatsu ni kansuru kenkyu),
W77-09911 1020 5B

Sensitivity Analysis of the Water Quality for River-Reservoir Systems Model,
W77-09981 1020 5B

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

Water-Resources Appraisal of the Carson River Basin, Western Nevada,
W77-09992 1020 4A

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

Water Resources Data for Ohio, Water Year 1975-Volume 1. Ohio River Basin.
W77-10000 1020 7C

Water Resources Data for Ohio, Water Year 1975--Volume 2. St. Lawrence River Basin.
W77-10001 1020 7C

Water Resources Data For Wyoming, Water Year 1975.
W77-10002 1020 7C

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Water Quality Program of the U.S. Geological Survey,
W77-10006 1020 5A

Water Resources of the Umatilla Indian Reservation, Oregon,
W77-10011 1020 4A

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

1976 Water-Quality Data in Bear Creek Basin, Medford, Oregon,
W77-10015 1020 5A

Water Color and Circulation Southern Chesapeake Bay. Part I. Southern Chesapeake Bay Water Color and Circulation Analysis, Part II. Skylab Mss Vs. Photography for Estuarine Water Color Classification,
W77-10026 1020 2L

A Dynamic Water Quality Model for the Neuse Estuary, N.C.,
W77-10037 1020 5B

An Investigation of the Nearshore Region of Lake Ontario IFYGL.
W77-10053 1020 5C

Bay Springs Lake Water-Quality Study,
W77-10055 1020 5B

Biological, Chemical and Physical Relationships in the Straits of Mackinac,
W77-10058 1020 5C

Chemical Quality of Irrigation Water Polluted with Nitrogen Compounds, (In Japanese),
W77-10156 1021 5B

Fishery Waste Effluents: A Suggested System for Determining and Calculating Pollutant Parameters,
W77-10242 1021 5A

A General Purpose Univariate Probability Model for Environmental Data Analysis,
W77-10291 1021 6G

A Regional Environmental Quality Management Model: An Assessment,
W77-10292 1021 5G

Wastewater Management Program, Jamaica Bay, New York, Volume I: Summary Report,
W77-10533 1021 5D

Water Resources Data for Texas, Water Year 1975--Volume 1. Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and Intervening Coastal Basins.
W77-10552 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 2. San Jacinto River Basin, Brazos River Basin, San Bernard River Basin and Intervening Coastal Basins.
W77-10553 1021 7C

Water Resources Data for Texas, Water Year 1975--Volume 3. Colorado River Basin, Lavaca River Basin, Guadalupe River Basin, Nueces River Basin, Rio Grande Basin and Intervening Coastal Basins.
W77-10554 1021 7C

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

Public Water Supplies of North Carolina, Part 4. Northern Coastal Plain,
W77-10561 1021 6D

Water-Quality Data for the Southern Ute Indian Reservation, Southwestern Colorado,
W77-10562 1021 5B

Hydrologic Evaluation of Ashley Valley, Northern Uinta Basin Area, Utah,
W77-10564 1021 2A

Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

Index of Published Surface-Water-Quality Data for Oklahoma 1946-1975,
W77-10567 1021 7C

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

Water Hyacinth Culture for Wastewater Treatment,
W77-10586 1021 5D

Direct Filtration,
W77-10651 1021 5D

Nitrogen Uptake and Release in a Forested Watershed, Lake Tahoe Basin, California,
W77-10753 1021 5C

Computer Simulation in Water Resources Systems.
W77-10806 1022 2A

A Recursive Approach to Time-Series Analysis for Multivariable Systems,
W77-10807 1022 5B

A Dynamic-Stochastic Model for Water Quality in Part of the Bedford-Ouse River System,
W77-10811 1022 5B

Description of an Intended Project on Water Quality Estimation,
W77-10817 1022 5B

The Influence of the Quality of Water on Ecological Systems,
W77-10818 1022 5C

Static and Dynamic Simulation of Water Transport in a Complex Network System,
W77-10828 1022 5B

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

Water Resources Data for New Jersey, Water Year 1975.
W77-10854 1022 7C

Water Resources Data for Missouri, Water Year 1975.
W77-10855 1022 7C

Water Resources Data for Virginia, Water Year 1975.
W77-10856 1022 7C

Effects of Phreatophyte Removal on Water Quality in the Gila River Phreatophyte Project Area, Graham County, Arizona, With a Section Statistical Analysis,
W77-10868 1022 5A

Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

Sediment Suspension and Turbulence in an Oscillating Flume,
W77-10887 1022 2J

Water Quality Data During September 10-13, 1974 at Ward Cove and Tongass Narrows, Alaska.
W77-10890 1022 5C

Remote Sensing Study of Electric Generating Station Thermal Discharges to Barnegat Bay and Great Egg Harbor, New Jersey.
W77-10892 1022 5A

Impact on Texas Water Quality and Resources of Alternate Strategies for Production, Distribution, and Utilization of Energy in Texas in the Period 1974-2000,
W77-10930 1022 5C

Effect of Sediment Organic Matter on Migration of Various Chemical Constituents During Disposal of Dredged Material,
W77-10937 1022 5B

Hydrogen Ion Exchange on Amorphous Silica in Seawater,
W77-10979 1022 2K

Water Quality and Molluscan Shellfish: An Overview of the Problems and the Nature of Appropriate Federal Laws,
W77-11048 1022 5G

Analysis of Brine Disposal in the Gulf of Mexico. (3) Capline Sector,
W77-11049 1022 5E

Western Negev Exploitation of Brackish Water for Agricultural Use,
W77-11060 1022 3C

Water Quality in Vicinity of Fenton Hill Site, 1975,
W77-11129 1022 5A

The Water Quality Problem on the Colorado River,
W77-11168 1022 5G

Utilization of Fish for Water Quality Determination. Comparison with the Biotic Index Method. Application to the Laxia (French River in the Pays Basque) and the Gabas (French River in the Landes Department), (In French),
W77-11259 1022 5A

Two European Oyster (Ostrea Edulis) Mortalities Associated with an Abnormal Haemocytic Condition,
W77-11263 1022 5C

The Effect of Salinity on the Early Development Stanzas of the Walleye (Lucioperca Lucioperca),
W77-11339 1022 5C

Water Resources Data for Maine, Water Year 1975.
W77-11371 1022 7C

Water Resources Data for Colorado, Water Year 1975--Volume 2. Colorado River Basin.
W77-11372 1022 7C

Water Resources Data for Kansas, Water Year 1976.
W77-11374 1022 7C

River-Quality Assessments,
W77-11379 1022 5B

Aquatic Environmental Quality: Problems and Proposals,
W77-11421 1022 5A

Factors Influencing Natural Water Quality and Changes Resulting from Land-Use Practices,
W77-11425 1022 5C

Scientific Information in the Decision To Dam Glen Canyon,
W77-11583 1023 8E

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Traditional Methods of Water Purification in the Riverain Sudan in Relation to Geographic and Socioeconomic Conditions,
W77-11620 1023 5D

Studies on Drainage Water of Behira Governorate: The Suitability of El-Khyri Group Drains,
W77-11634 1023 3C

Lake Ontario Atlas: Chemistry,
W77-11654 1023 5C

A Preliminary Oceanographic Survey of the Damariscotta River Estuary, Lincoln County, Maine,
W77-11657 1023 5B

Potential Value of Treatment of Urban Stormwater,
W77-11675 1023 5G

Granular Activated Carbon in Water Treatment,
W77-11720 1023 5D

Transverse-Grid Water Quality Analyses Over the Szob-Budapest Danube Section (Keresztmetszethalos vizminoseg vizsgalatok a Duna Szob-Budapest kozotti szakaszan),
W77-11731 1023 5A

Problems Related to Water Quality Over the Danube Section Between Rajka and Esztergom (A Rajka-Esztergom kozotti Duna-szakasz vizminosegi problemai),
W77-11738 1023 5B

Problems in Implementing U. S. Water Quality Goals,
W77-11739 1023 5G

Water Quality Management--Research and Development Areas,
W77-11747 1023 5G

Salvaging an Old Sewage Plant Cuts Tertiary Treatment Costs.
W77-11751 1023 5D

Planning for Implementation Under Section 208,
W77-11776 1023 5G

Laboratory Studies of Upgrading Effluent Water Quality from Sewage Lagoons,
W77-11793 1023 5D

Modeling the Impact of Strip Mining and Reclamation Processes on Quality and Quantity of Water in Mined Areas: A Review,
W77-11833 1023 5C

Water Resources Data for Florida, Water Year 1975--Volume 2. Southern Florida.
W77-11876 1023 7C

Water Resources Data for Florida, Water Year 1975--Volume 1. Northern Florida.
W77-11877 1023 7C

Nutrients in the Neuse River Estuary.
W77-11886 1023 5C

Assessment of Offshore Dumping in the New York Bight, Technical Background: Physical Oceanography, Geological Oceanography, Chemical Oceanography.
W77-11896 1023 5B

Significance of Low Molecular Weight Hydrocarbons in Eastern Gulf Waters,
W77-11902 1023 5B

Influence of Pump Storage and Generation on Commercial Fisheries Potential of Reservoirs,
W77-11907 1023 5C

Electrochemical Chlorine Flux Monitor,
W77-11915 1023 5A

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

Effect on Irrigation Water Quality, Sulfuric Acid and Gypsum on Plant Growth and on Some Physical and Chemical Properties of Pima Soil,
W77-11998 1023 3C

Effect of Depth and Quality of Ground Water on Soil Salinization: A Field Study with a Fluctuating Water Table,
W77-12000 1023 2G

A Kinematic Reference Frame for Estuaries of One Dimension,
W77-12109 1023 5B

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

Callahan Reservoir: III. Bottom Sediment-Water-Phosphorus Relationships,
W77-12150 1023 5G

Hydrologic Evaluation of the Upper Duchesne River Valley, Northern Uinta Basin Area, Utah,
W77-12158 1023 4B

Lake Michigan Diversion--Stream Quality Planning,
W77-12163 1023 5G

Nutrient Transport in Runoff from Sandy Soils,
W77-12184 1023 5B

Disposition of Dieldrin in Four Components of Two Artificial Aquatic Systems and a Farm Pool,
W77-12230 1023 5B

An Index for Predicting Surface Water Quality Based on the Vegetation of the Watershed,
W77-12262 1024 5A

Vermont's Needs in Water Resources Research,
W77-12268 1024 6B

Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

Water Resources Data for Nevada, Water Year 1976.
W77-12386 1024 7C

Water Resources Data for Alabama, Water Year 1976.
W77-12387 1024 7C

Water Resources Data for South Carolina, Water Year 1976.
W77-12388 1024 7C

Water Resources Data for Kentucky, Water Year 1976.
W77-12389 1024 7C

Hydrogeologic Data from Investigation of Water Resources of the South Fork, Suffolk County, New York,
W77-12390 1024 7C

Fresh-Water Resources in the Southeastern Part of the Tularosa Basin,
W77-12392 1024 4A

A Community Developer's Role in Environmental Planning and Monitoring,
W77-12396 1024 5C

Water Quality Management - Quality Planning,
W77-12401 1024 5G

Descriptive Water Quality (Dispersion) Model for the Danube Section Between Szob and Budapest (A Duna, Szob es Budapest kozotti vonatkozo, leiro jellegu visminosegi (diszperzios) modell),
W77-12412 1024 5B

Management for Optimum Efficiency,
W77-12510 1024 3F

Northern Great Plains Resources Program: Water Quality Subgroup Report,
W77-12588 1024 5C

Water Purifier,
W77-12690 1024 5F

Groundwater of Voyvodina, Its Quality and Applicability for Irrigation,
W77-12728 1024 5B

Convective Transport of Solutes in and Below the Root Zone,
W77-12732 1024 5B

Water Quality for Agriculture,
W77-12753 1024 5G

Tastes and Odors in Water Supplies-A Review,
W77-12794 1024 5F

Nutrients in Albermarle Sound, North Carolina,
W77-12912 1024 5B

WATER QUALITY ACT

The Muddy Road to Clean Water,
W77-03587 1007 5G

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

The Compulsory Self-Disclosure and Penalty Provisions of the 1972 Amendments to the Federal Water Pollution Control Act: Catch-22 at Sea,
W77-06549 1013 5G

Porter--Cologne Water Quality Control Act.
W77-08978 1018 6E

Releasing Dead Animals, Etc., Into or Near Waters.
W77-10501 1021 6E

Regional Water Quality Control,
W77-11162 1022 6E

WATER QUALITY CONTROL

Removal vs Benefits: It Can Be Too Costly,
W77-00044 1001 5D

Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

A Reliability Assessment for Regional Water Quality Management,
W77-00114 1001 5G

A Phosphorus Residence Time Model: Theory and Application,
W77-00124 1001 5B

Developing a Total Oil Spill Cleanup Capability in the San Francisco Bay Area,
W77-00200 1001 5G

Spill Prevention--Phase II,
W77-00201 1001 5G

Spill Prevention in Offshore Petroleum Producing Facilities,
W77-00202 1001 5G

Coast Guard Transfer Monitoring Program,
W77-00204 1001 5B

Design of a Refinery Dock to Prevent Oil Spills,
W77-00205 1001 5G

A Dual Program for Prevention of Oil Spills in Offshore Drilling and Producing Operations,
W77-00206 1001 5G

Prevention--The Best Method of Controlling Pollution,
W77-00207 1001 5G

Prevention is Best,
W77-00208 1001 5G

The Visibility of Oil-Water Discharges,
W77-00212 1001 5B

Remote Sampler for Determining Residual Oil Content of Surface Waters,
W77-00216 1001 5A

Laboratory and Field Testing of Surface-Film Forming Chemicals for Use as Oil Collecting Agents,
W77-00226 1001 5B

Development of the 'Next Generation' Chemical Dispersants,
W77-00227 1001 5G

Engineering Study of an Oil Gellation Technique to Control Spills from Distressed Tankers,
W77-00228 1001 5G

The Toxicity Testing of Oils and Dispersants: A European View,
W77-00229 1001 5G

Development of a Polyurethane Foam Marine Oil Recovery System,
W77-00231 1001 5G

Development and Preliminary Design of a Sorbent Oil Recovery System,
W77-00232 1001 5G

Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

New Device for Removing Oil Slicks from the Surface of Water,
W77-00234 1001 5G

Free Vortex Recovery of Floating Oil,
W77-00235 1001 5G

High Seas Oil Recovery System,
W77-00236 1001 5G

Oil Recovery on the High Seas,
W77-00237 1001 5G

Oil Spill Containment System Development and Testing Program,
W77-00238 1001 5G

Physical Requirements for Oil Pollution Control Barriers,
W77-00239 1001 5G

Mechanical Control of Oil Spills Utilizing a Streamlined Boom,
W77-00240 1001 5G

Analytical Examination of Oil/Water Separation by Coalescence,
W77-00241 1001 5G

Evaluation of a Unique Centrifuge for Separation of Oil from Ship Discharge Water,
W77-00242 1001 5G

In-Situ Measurements of Oil Barrier Shape and Loads Due to Current Action,
W77-00243 1001 5G

The Isolation and Characterization of Hydrocarbon-Utilizing Bacteria from Chedabucto Bay, Nova Scotia,
W77-00244 1001 5A

Design Parameter Study of an Oil-Spill Boom,
W77-00245 1001 5G

Oil Water Separation by Ultrafiltration,
W77-00246 1001 5G

Drop Size Distributions in Oil Water Mixtures,
W77-00247 1001 5G

Large-Scale Experiments on the Spreading of Oil at Sea and Its Disappearance by Natural Factors,
W77-00248 1001 5G

Measurement of Evaporation Rates from Oil Slicks on the Open Sea,
W77-00249 1001 5G

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Distribution of Heavy Hydrocarbons in some Atlantic Ocean Waters,
W77-00252 1001 5B

Prediction of Oil Slick Motions in Narragansett Bay,
W77-00253 1001 5B

Cleanup of Inland Oil Spills,
W77-00254 1001 5G

Two Types of Oil Spills in Swedish Inland Waters--Tests of New Materials, Ideas and Methods,
W77-00255 1001 5G

Tropical Storm Agnes Pennsylvania's Torrey Canyon,
W77-00256 1001 5G

Lake Champlain: A Case History on the Cleanup of No. 6 Fuel through Five Feet of Solid Ice at Near-Zero Temperatures,
W77-00257 1001 5G

Successes and Failures with Oil Spills in the Southeastern Inland Waters,
W77-00258 1001 5G

An Effective Oil Spill Containment-Recovery System for High Seas Use,
W77-00259 1001 5G

Case Studies of the USN Supervisor of Salvage, Salvage Related Oil Pollution Incidents,
W77-00260 1001 5G

Jet Oil Recovery Device,
W77-00261 1001 5G

Codes of Practice for Dealing with Oil Spills at Sea and on Shore: A European View
W77-00262 1001 5G

Quantitative Evaluation of Mechanical Oil Spill Cleanup Devices,
W77-00263 1001 5G

Oil/Sorbent Harvesting Systems for use on Vessels of Opportunity,
W77-00264 1001 5G

Use of the Massachusetts Dip Oil Skimmer on Free Slicks in the Casco Bay (Portland) Spill,
W77-00265 1001 5G

Development of Methodology and Apparatus for the Bioassay of Oil,
W77-00266 1001 5A

Regulations: Reactions and Resolution,
W77-00615 1002 5G

Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Simulation of Dissolved Oxygen and Biochemical Oxygen Demand Plantation Canal, Broward County, FLorida, with an Evaluation of the QUAL-I Model for Use in South Florida,
W77-00852 1002 5B

The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

Nonpoint Pollution and Water Quality Monitoring,
W77-00960 1002 5G

Garbage Pollution, Disposal into Streams.
W77-00990 1002 6E

State Ex Rel Brown V Rockside Reclamation (Statute Providing for Granting of Permits Relating to Water Pollution Control--Application).
W77-01114 1003 6E

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

The Ground Water Legal Regime as Instrument of Policy Objectives and Management Requirements,
W77-01181 1003 6E

Oil or Organic Solvent-Absorbent,
W77-01200 1003 5G

Apparatus for Spilling Retrieval,
W77-01202 1003 5G

Oil Spill Cleanup System,
W77-01203 1003 5G

Oil Collection Barge,
W77-01204 1003 5G

Apparatus for Collecting Oil Slick from a Body of Water,
W77-01211 1003 5G

Floating Skimmer for Cleaning the Surface of a Body of Liquid, Method and Apparatus,
W77-01228 1003 5G

Oil Fence,
W77-01230 1003 5G

Ultraviolet Water Purifier,
W77-01234 1003 5F

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

1975 Review of the Literature on Pulp and Paper Effluent Management,
W77-01678 1004 5D

Water Pollution Monitor,
W77-01722 1004 5A

Water Conditioning Device,
W77-01727 1004 5F

Liquid Treating System,
W77-01739 1004 5F

Containment and Riddance of Oil Spills,
W77-01749 1004 5G

Dilution for Eutrophication Control in Moses Lake: Hydraulic Model Study,
W77-01814 1004 5G

Optimal Management of the Subsurface Environment,
W77-01884 1004 4B

An Empirical Analysis of Predictors of Income Distribution Effects of Water Quality Controls,
W77-02833 1006 5G

Study of Sanitary Problems in Connection with Inter-Basin Transfer of River Runoff, (In Russian),
W77-02905 1006 5C

Water Pollution Control Administration, A Memorandum Report on a Reconnaissance Study.
W77-03684 1008 5G

Currents and Pollutant Dispersion in Lake Michigan, Modeled with Emphasis on the Calumet Region,
W77-03732 1008 5B

Chemical Hazards Response Information System for Multimodal Accidents (Chrisma) (A Reevaluation of Chris for all Modes of Transportation),
W77-03903 1008 5A

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-03931 1008 5G

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Modeling Process Substitutions by LP and MIP,
W77-03933 1008 5G

Application of Game Theory in Water Management,
W77-04009 1008 6A

A Scientific Basis for Determining Recreational Water Quality Criteria,
W77-04011 1008 5G

Optimal Sequencing in Installing Wastewater Treatment Plants,
W77-04019 1008 5D

Baseline Studies of Delaware Ocean Outfall Sites,
W77-04330 1009 5A

Distribution and Abundance of Ichthyoplankton in the New York Bight During the Fall in 1971,
W77-04333 1009 5B

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Farmers and Fishermen: Interaction in the Coastal Zone,
W77-04473 1009 6G

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Ecological Modeling in a Resource Management Framework: An Introduction,
W77-04494 1009 6G

A Discussion of CLEAN, the Aquatic Model of the Eastern Deciduous Forest Biome,
W77-04496 1009 6G

The Delaware Estuary,
W77-04497 1009 6G

Phytoplankton Models and Eutrophication Problems,
W77-04499 1009 5C

Present Problems and Future Prospects of Ecological Modeling,
W77-04503 1009 6G

Federal and State Waste Treatment Regulations Affecting Seafood Processors in Georgia,
W77-04840 1010 6E

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

Process for Removing Dissolved Phosphorus from Water Magnetically,
W77-04952 1010 5D

Estuarial Models,
W77-05015 1010 2L

Ecologic Models,
W77-05016 1010 5B

Model Water Pollution Statute,
W77-05042 1010 5G

Problems and Possibilities in Urban Drainage,
W77-05248 1011 5D

Options for Improving Water Quality,
W77-05252 1011 5G

A Practical Methodology for River Quality Simulation Through the Stage-Wise Generation of Transition Function,
W77-05257 1011 5G

Prototype High-Seas Disc-Drum Oil Recovery System,
W77-05384 1011 5G

Final Environmental Statement. Vol I, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05536 1011 6G

Final Environmental Statement. Vol 3, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05538 1011 6G

Final Environmental Statement. Vol 4, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05539 1011 6G

Final Environmental Statement. Vol 5, Proposed 1975 Outer Continental Shelf Oil and Gas General Lease Sale Offshore Southern California (O.C.S. Sale No. 35).
W77-05540 1011 6G

Silt and Pollution Control for Marine Facility,
W77-05599 1011 5G

Method for Removing Metals from Dilute Aqueous Solutions,
W77-05654 1012 5D

Method and System for Purifying Liquid,
W77-05655 1012 5D

Apparatus for Treating a Liquid,
W77-05666 1012 5F

Comment on 'An Optimization Model for Regional Water Quality Management' by John R. McNamara,
W77-05919 1012 5G

Goal Programming Model for Water Quality Planning,
W77-05925 1012 5D

A Two-Dimensional Mathematical Model for Water Quality Planning in Estuaries,
W77-05926 1012 5B

Proceedings of the Conference on Salt and Salinity Management,
W77-05934 1012 5G

Biological Filter Design Optimization,
W77-05981 1012 5D

Coupled Optimization-Simulation Water Quality Model,
W77-05992 1012 5B

Pollution Fees are for Real in France,
W77-06046 1012 5G

Absorbent Products for Hydrocarbons,
W77-06456 1013 5G

Water Quality Control and Tax Incentives: A Panacea for Water Pollution,
W77-06552 1013 5G

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

Means for Protecting the Drinking Water Quality of Lake George, New York,
W77-06682 1014 5G

The New York Bight Project - 1975; Stony Brook, Long Island, New York.
W77-06876 1014 5G

Review and Analysis of Hydrogeologic Conditions Near the Site of a Potential Nuclear-Waste Repository, Eddy and Lea Counties, New Mexico,
W77-06974 1014 5B

Water Quality Management and the Distribution of Emission Rights by Sealed Tender Markets,
W77-06976 1014 5E

Water Quality Simulation of Tahoe-Truckee System, Nevada-California-Volume I,
W77-07075 1014 5B

Integrated Approach to Urban Waste Water Management,
W77-07095 1014 5D

Appropriation of Water--Permits, Certificates and Licenses--Survey.
W77-07265 1015 6E

The Oligochaete Communities of a Lowland Stream and Their Value as Indicators of Organic Pollution,
W77-07307 1015 5C

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Hierarchical Modeling for the Planning and Management of a Total Regional Water Resource System: Joint Consideration of the Supply and Quality of Ground and Surface Water Resources,
W77-07793 1016 4B

German Pollution Control,
W77-07863 1016 5G

Community Water Supply and Excreta Disposal in the Developing Countries,
W77-07865 1016 5G

Improvement and Expansion of the Drainage System of Hamburg,
W77-07890 1016 5D

Lakes Will Take the Pollution Load Off Old Father Tame,
W77-07913 1016 5G

Easier Identification with MPN Procedure,
W77-07928 1016 5A

1776-1976: Notes on Water Quality Planning,
W77-07938 1016 5G

Water and Waste Water Engineering for Low Income Communities in Developing Countries,
W77-07939 1016 5G

Watershed Management and Water Quality,
W77-07951 1016 5G

Composition and Method of Inhibiting Growth of Slime in Water,
W77-08027 1016 5G

Reorganizing Pollution Control in the U.K.
W77-08111 1017 5G

Analyses of Water, Core Material, and Elutriate Samples Collected Near New Orleans, Louisiana (Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection Project),
W77-08165 1017 8D

Water Allocation and Pricing for Control of Irrigation-Related Salinity in a River Basin,
W77-08213 1017 5G

American Frozen Food v Train ('Guidelines' and 'Effluent Limitations' for the Potato Process Industry Pursuant to the Federal Water Pollution Control Act Amendments of 1972).
W77-08386 1017 6E

Method for Determining Acute Toxicity of an Acid Waste and Limiting Permissible Concentration at Boundaries of an Oceanic Mixing Zone,
W77-08771 1018 5C

Method of Purifying Waste Water,
W77-08881 1018 5D

Detergent Composition for Dispersing Oil Spills,
W77-08884 1018 5G

Fending Device for Oil Containment Boom,
W77-08892 1018 5G

Skimmer Fence,
W77-08893 1018 5G

Section 208 and Section 303 Water Quality Planning and Management: Where is it Now,
W77-08949 1018 5G

Proceedings of the International Conference on Global Water Law Systems, September 1-9, 1975, Valencia, Spain.
W77-08966 1018 6E

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Optimal Artificial Aeration Policy for Water Quality Control of Streams Receiving Multiple Thermal and Sewage Discharges,
W77-09147 1019 5G

Environmental Modeling and Simulation, Proceedings of the Conference On.
W77-09154 1019 5B

A Systematic Approach to Regional Water Quality Planning,
W77-09156 1019 5G

RIBAM, A Generalized Model for River Basin Water Quality Management Planning,
W77-09158 1019 5G

Comparison of Eutrophication Models,
W77-09159 1019 5C

Planning Models for Non-Point Runoff Assessment,
W77-09162 1019 5B

A Mathematical Model of Dissolved Oxygen in the Lower Cuyahoga River,
W77-09163 1019 5B

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Mathematical Model of a Great Lakes Estuary,
W77-09166 1019 5B

Waste Allocations in the Buffalo (New York) River Basin,
W77-09168 1019 5B

Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

Joint Use of SWMM and Storm Models for Planning Urban Sewer Systems,
W77-09172 1019 5D

Modeling the Effect of Pesticide Loading on Riverine Ecosystems,
W77-09174 1019 5B

An Empirical Model for Nutrient Rates in Lake Ontario,
W77-09178 1019 5C

Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

Water Quality Modeling in Texas,
W77-09181 1019 5B

A Dynamic Water Quality Simulation Model for the Thames River,
W77-09182 1019 5B

Receiv-II, A Generalized Dynamic Planning Model for Water Quality Management,
W77-09185 1019 5B

Modifications to Qual - II to Evaluate Wastewater Storage,
W77-09186 1019 5D

Evaluation and Selection of Water Quality Models: A Planner's Guide,
W77-09191 1019 5B

Environmental, Fiscal and Socio-Economic Impact of Land Use Policies: Toward an Interactive Analysis,
W77-09196 1019 6B

A River Basin Planning Methodology for Streams with Dissolved Oxygen and Eutrophication Constraints,
W77-09198 1019 5B

Research, Design, and Development of the U.S. Coast Guard High Seas Oil Containment System,
W77-09226 1019 5G

Urban Water Runoff and Water Quality Control,
W77-09267 1019 5B

The Effects of Thermal Discharge and Artificial Aeration on Stream Water Quality,
W77-09407 1019 5G

Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

Study on Economic and Policy Instruments for Water Management. Water Management in the Netherlands.
W77-09464 1019 6E

Morshead v California Regional Water (Water Quality Standards Upheld as a Valid Exercise of Police Power).
W77-09564 1019 6E

Alteration of Channel of Streams (Permit System).
W77-09575 1019 6E

An Automatic System for Rapid Detection of Acute High Concentrations of Toxic Substances in Surface Water Using Trout,
W77-09590 1019 5A

A Food Web Model for Lake Michigan: Part I-Justification and Development of the Model,
W77-09631 1020 5C

Colorado River Basin Salinity Control Project--Title I,
W77-09931 1020 5D

Methodology to Evaluate Alternative Coastal Zone Management Policies: Application in the Texas Coastal Zone, Special Report III: A Methodology for Investigating Fresh Water Inflow Requirements of a Texas Estuary, Vol I,
W77-10022 1020 2L

Potential Environmental Consequences of Tertiary Oil Recovery,
W77-10023 1020 5C

Identification and Analysis of Mid-Atlantic Onshore OCS Impacts.
W77-10027 1020 5C

Bottom Withdrawal can Enhance Lake Water Quality,
W77-10049 1020 5G

Modelling, Simulation and Control of Stochastic Systems with Applications in Wastewater Treatment,
W77-10294 1021 5D

Processing of Industrial Waste for Solar Evaporation,
W77-10337 1021 5D

Living with the Lake. A Guide to Illinois Lakeshore Management.
W77-10504 1021 5G

Direct Digital Control at the Iowa City Water-Treatment Plant,
W77-10585 1021 5F

Practical Experiences in Formulating a Water Quality Model for the River Neckar,
W77-10812 1022 5B

Simulation and Optimisation of a Biological Water Treatment Plant,
W77-10816 1022 5D

Control of Water Quality in Polluted Streams,
W77-10834 1022 5G

Optimal Allocation of Artificial In-Stream Aeration,
W77-10835 1022 5G

Regional Environmental Management Modeling.
W77-10842 1022 6A

Linked Models for Managing River Basin Salt Balance,
W77-10849 1022 4A

An Analysis of Coastal Zone Management Program Proposals to Determine Their Effect on the United States Air Force,
W77-10882 1022 5G

Sea-Level Monitoring of the Incineration of Organic Chloride Waste by M/T Vulcanus in the Northern Gulf of Mexico Shell Waste Burn No. 2.
W77-10885 1022 5G

Water Filter Device,
W77-10993 1022 5F

Oil Absorbent Material and Method of Oil Removal,
W77-11002 1022 5G

Apparatus for Removal of Oil Films from Water,
W77-11007 1022 5G

Reactor for Purification of Water by Fluid Filtration,
W77-11016 1022 5F

Device for Sucking the Upper Layer of a Polluted Water Surface,
W77-11018 1022 5G

Wild Rivers Flowing Free.
W77-11161 1022 6E

Regional Water Quality Control,
W77-11162 1022 6E

Fallen Leaf Protection Association v South Tahoe Public Utilities District (Provisions of California Water Code Requiring Specific Property Owners to Connect to Sewer Lines Upheld Against Constitutional Challenge).
W77-11182 1022 6E

River-Quality Assessments,
W77-11379 1022 5B

Palmer Lake Sanitation District, Palmer Lake, Colorado (Environmental Impact Statement).
W77-11452 1022 5D

Effect of Waste Discharge Regulations on Real Property Development,
W77-11462 1022 5G

A Procedure for the Routine Biological Evaluation of Urban Runoff in Small Rivers,
W77-11484 1022 5A

Aquaculture,
W77-11665 1023 5G

Trace Metals in Open Water Disposal of Dredged Material,
W77-11780 1023 5E

Alabama Public Meeting Series on Coastal Zone Boundaries, November - December, 1975. Interpretations,
W77-11900 1023 6E

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

Electrochemical Chlorine Flux Monitor,
W77-11915 1023 5A

Meeting Water-Recycle Requirements at a Western Zero-Discharge Plant,
W77-12006 1023 5D

Development of a High Seas Oil Recovery System, Phase II Prototype Design, Fabrication, and Testing,
W77-12146 1023 5G

A Plan for a National Coastal Water Quality Monitoring Network.
W77-12147 1023 4C

Regional Management of Urban and Agricultural Pollution,
W77-12167 1023 5G

Water Quality Management in the Soviet Union,
W77-12398 1024 5G

Process for Removing Hydrocarbons and Other Organic Products from Aqueous Fluids,
W77-12706 1024 5D

Pick-Up Element for Oily Contaminants,
W77-12707 1024 5G

Significance of Water Quality to Water Resources,
W77-12714 1024 5G

Managing Saline Water for Irrigation.
W77-12726 1024 3C

Water Quality and Return Flow Study of the Oahe Unit, South Dakota,
W77-12750 1024 5G

American Paper Institute V Train (Challenge to Effluent Limitation Guidelines for Pulp, Paper and Paperboard Industry).
W77-12905 1024 6E

Prohibition Against Pollution.
W77-12908 1024 6E

Texas Water Quality Act (Establishment of Water Quality Board).
W77-12909 1024 6E

The MIT/Marine Industry Collegium Opportunity Brief No. 6. Electron Irradiation, Sewage Sludge and Aquaculture.
W77-12915 1024 5D

WATER QUALITY DATA
Patuxent River Basin Model Rates Study,
W77-09170 1019 5B

WATER QUALITY DATA INTEGRATION
Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

WATER QUALITY IMPROVEMENT ACT OF 1970
Damages Compensable Under Federal Maritime Law for Injuries Caused by Discharge of Oil into Navigable Waters,
W77-03711 1008 5G

WATER QUALITY INDICES
Attitudes of Professionals in Water Management Toward the Use of Water Quality Indices,
W77-06353 1013 5G

A Methodology for Comparative Evaluation of Water Quality Indices,
W77-09632 1020 5A

WATER QUALITY MANAGEMENT (APPLIED)
Water Quality Management--The Management Information Requirement,
W77-12394 1024 5G

WATER QUALITY MONITORING NETWORK
Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

WATER QUALITY PROFILES
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W77-03013 1006 5B

WATER QUALITY REQUIREMENTS
The Effect of Gas Content of Water on Larval and Young Fish,
W77-05463 1011 5C

WATER QUALITY STANDARDS
Investigation of Bacteriological Pollution of Recreational Waters in Arizona,
W77-00153 1001 5B

Towards Method Standardization: E. Coli Counts in Water Samples Using Membrane Filters, (In Turkish),
W77-00453 1001 5A

Hygienic Problems of the Formation and Prediction of Changes of Groundwater Quality in the Case of Recharging from Surface Water Sources, (In Russian),
W77-00528 1002 5B

Substantiation of the Maximum Permissible Concentration of Niobium in Water Bodies, (In Russian),
W77-00529 1002 5C

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Water Hyacinths for Upgrading Sewage Lagoons to Meet Advanced Wastewater Treatment Standards: Part I.
W77-00621 1002 5D

Inspection Manual for the Enforcement of New Source Performance Standards: Sewage Sludge Incinerators,
W77-00627 1002 5G

The Dilemmas of Setting Sediment Standards,
W77-00806 1002 5G

Organic Chemicals Manufacturing Point Source Category--Effluent Limitations, Guidelines and Standards.
W77-00983 1002 5G

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation.
W77-00986 1002 5G

Train V Colorado Public Interest Research Group, Inc. (Conflict of Federal Water Pollution Control Act and the Atomic Energy Act).
W77-00987 1002 6E

Better Than Best: A Crosscurrent in the Federal Water Pollution Control Act Amendments of 1972,
W77-01073 1003 5G

Workshop on Toxicity to Biota of Metal Forms in Natural Water.
W77-01295 1003 5C

Oil-Spill Dispersant for Marine Pollution (Lekoliedispergeermiddel vir seebesoedeling).
W77-01387 1003 5G

Hygienic Aspects of the Central Water Heating, (In Russian),
W77-01559 1004 5G

Determination of Estimated Maximum Permissible and Maximum Residual Concentrations of Pesticides in Environmental Objects, Based on the Principles of Complex (Integral) Standardization, (In Russian),
W77-01575 1004 5G

Annual Book of ASTM Standards. Part 31: Water,
W77-01662 1004 5A

A Manual of Laws, Regulations, and Institutions for Control of Ground Water Pollution,
W77-01776 1004 5G

Proceedings of the First Microbiology Seminar on Standardization of Methods, January 9-11, 1973, San Francisco, California.
W77-01781 1004 5A

Water Pollution Abatement Technology, Capabilities and Costs, Steam Electric Power Industry, (Volume 1, 2 and 3).
W77-01983 1004 5G

National Effluent Standards,
W77-02061 1004 5G

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Hygienic Standardization of Diethylbenzene in Water Bodies, (In Russian),
W77-02152 1005 5G

Swimming Participation and Water Quality in Tompkins County, New York,
W77-02185 1005 5G

Hygienic Standardization of Octylic Stabilizers of Polyvinylchloride in Water Bodies, (In Russian),
W77-02264 1005 5G

Experimental Study of Safe Levels of the Herbicides Linuron and Dichlorphenyloxyurea in Water Bodies, (In Russian),
W77-02265 1005 5G

Environment and Pollutions. Sources, Health Effects, Monitoring and Control,
W77-02521 1005 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Plywood, Hardboard and Wood Preserving Segment of the Timber Products Processing Point Source Category,
W77-02554 1005 5G

Selection of Strains in Investigations for Hygienic Standardization of the Bacterial Composition of Drinking Water, (In Russian),
W77-02900 1006 5C

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

Bear River Evaluation Report, 1974 Survey,
W77-03292 1007 5B

National Safe Drinking Water Strategy, One Step at a Time.
W77-03357 1007 5G

Delaware 1975 State Water Quality Inventory,
W77-03378 1007 5G

Water Quality in the Calumet Area. Conference on Pollution of Lower Lake Michigan, Calumet River, Grand Calumet River, Little Calumet River, and Wolf Lake, Illinois and Indiana.
W77-03382 1007 5B

Microbiological Examination of Waters and Effluents,
W77-03470 1007 5A

Water Pollution.
W77-03495 1007 6E

Secondary Treatment Information; Biochemical Oxygen Demand, Suspended Solids and pH.
W77-03530 1007 5G

Experimental Substantiation of the Maximal Permissible Concentrations of Triethanolamine, Ammonium and Calcium Salts of Alkylbenzosulfates in Water Bodies, (In Russian),
W77-03586 1007 5B

Implementing the National Water Pollution Control Permit Program: Progress and Problems.
W77-03588 1007 5G

BPT: Consider the Alternatives (Best Practical Treatment Criterion).
W77-03690 1008 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Copper, Nickel, Chromium, and Zinc Segment of the Electroplating Point Source Category,
W77-03775 1008 5G

Standard 'Potable Water' (All-Union State Standard 2874-73, A New Stage in the Development of Water Hygiene, (In Russian),
W77-03853 1008 5G

A Scientific Basis for Determining Recreational Water Quality Criteria,
W77-04011 1008 5G

Current Problems of Hygienic Standardization of New Chemical Substances, (In Russian),
W77-04015 1008 5C

Experimental and Field Studies in Hygienic Assessment of Drinking Water Containing Boron, (In Russian),
W77-04033 1008 5G

Hygienic Aspects of Protection of Water Resources in the Light of the Resolution by the Central Committee of the Communist Party of the Soviet Union and the Council of Ministers on 'Means of Preventing Pollution of the Volga and Ural River Basins by Untreated Sewage', (In Russian),
W77-04096 1008 5G

Navigable Water of the State of Arizona; Water Quality Standards.
W77-04366 1009 5G

Oil Pollution Prevention.
W77-04367 1009 5G

Butadiene Limitations, Guidelines and Standards; Amendment.
W77-04368 1009 5G

Benzidine: Proposed Toxic Pollutant Effluent Standards.
W77-04370 1009 5G

Water Quality Standards,
W77-04436 1009 5C

Study on Hygienic Standardization of N-Butylamines in Water Bodies, (In Russian),
W77-04597 1009 5G

Environmental Quality Standards Under Conditions of Uncertainty,
W77-04858 1010 6G

Water Pollution Control Reform in Iowa: The Department of Environmental Quality Act of 1972,
W77-04908 1010 5G

House Oversight Hearings: Bearing the Law's Delay (1972 Amendments to Federal Water Pollution Control Act),
W77-04913 1010 5G

Effluent Guidelines and Standards: Pulp, Paper, and Paperboard Point Source Category,
W77-04925 1010 5G

FMC V Train (Validity of EPA Guidelines for Plastics and Synthetics),
W77-04929 1010 6E

Environmental Protection Agency V California Ex Rel State Water Resources Control Board (Permit Requirements of Federal Installation Discharging Water Pollutants),
W77-05067 1010 6E

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

The Operation of the Dumping at Sea Act 1974,
W77-06176 1013 5G

Control and Treatment of Waste Water,
W77-06185 1013 5G

A Water Quality Study of the Upper Clark Fork River and Selected Tributaries,
W77-06200 1013 5A

Water Quality Criteria for Great Lakes Waters to be Used as Municipal and Industrial Water Supplies,
W77-06230 1013 5G

1976 Minnesota Water Quality Inventory: Report to Congress Section 305 (b).
W77-06355 1013 5A

Proposed Trophic Classification of the Great Ponds of Maine,
W77-06372 1013 5C

Classification of Surface Waters.
W77-06373 1013 5G

Protection of Underground Drinking Water Supplies - The Gonzalez Amendment to the Safe Drinking Water Act,
W77-06548 1013 5G

Nonpoint Source Effects on Water Quality,
W77-07173 1015 5B

NCWQ Recommends Changes in Water Pollution Act,
W77-07237 1015 5G

Status Report on Abatement of Water Pollution from the Canadian Petroleum Refining Industry - 1975,
W77-07334 1015 5G

Dissolved Gas Survey, Pacific Northwest Region.
W77-07423 1015 5C

Water Quality Criteria and Waste Water Treatment,
W77-07522 1015 5D

Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

Oregon's Long-Range Requirements for Water. Water Quality Control Projections, Appendix VI.
W77-07626 1016 5G

Experimental Data for the Hygienic Standardization of Diphenylamine and Diphenyldiethylurea in Water Bodies, (In Russian),
W77-07700 1016 5G

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Waste Water Plants Use Less Instrumentation than Related Industries,
W77-07872 1016 5D

Survey Predicts 33 Percent Municipal Compliance with 1977 Deadline,
W77-07877 1016 5G

1976 Needs Survey Markedly Lower,
W77-07878 1016 5G

Recreational Use of Small Streams in Wisconsin,
W77-08008 1016 5G

Hygienic Criteria of the Complex Action of Chemical Environmental Pollutants, (In Russian),
W77-08029 1016 5G

Standards of Performance and Pretreatment Standards for the Explosives Manufacturing Point Source Category (Proposed Rules),
W77-08113 1017 5G

Let's Have Achievable 'Safe' Drinking Water,
W77-08127 1017 5G

Timber Products Processing Point Source Category Effluent Guidelines and Standards,
W77-08356 1017 5G

Nonferrous Metals Manufacturing Point Source Category Pretreatment Standards.
W77-08357 1017 5G

Toxic Pollutant Effluent Standards for Benzidine.
W77-08359 1017 5G

Effluent Guidelines and Standards for Canned and Preserved Fruits and Vegetables Point Source Category,
W77-08371 1017 5G

Some Experimental Data on the Study of the Biological Action of Ethylbutylamine as a Water Pollution Factor, (In Russian),
W77-08439 1017 5A

Design of a Water Quality Monitoring Network,
W77-08497 1017 5A

The Trials and Tribulations of Treatment Works in Lower Trent.
W77-08593 1017 5D

Application of Physico-Chemical Treatment as a Method of Achieving Partial Standards on Sewage Effluents Discharged in Estuarial and Coastal Situations,
W77-08634 1018 5D

PL 92-500: A Dose of Chaos,
W77-08959 1018 5G

EPA Proposes Untimely Amendments,
W77-08970 1018 5G

United States V. GAF Corporation: A Leak in the FWPCA,
W77-08979 1018 5G

Toxic Pollutant Effluent Standards for Aldrin/Dieldrin, DDT, Endrin, and Toxaphene,
W77-08983 1018 5G

Water Management Aspects of the Agricultural Utilization of Liquid Manure and Preliminary Expenditure Standards, (In German),
W77-09391 1019 5G

Industrial Effluent Surcharging: A Case Study of Kitchener, Ontario,
W77-09413 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Volume 1. Executive Summary,
W77-09451 1019 5G

Economic Impact of EPA's Regulations on the Pet. Refining Ind. Vol. 2, Pts 1 and 2. Ind. Description and Tech. Analysis,
W77-09452 1019 5G

Economic Impact of EPA's Regulations on the Petroleum Refining Industry. Vol. 3, Pt. 3. Economic Impact Analysis,
W77-09453 1019 5G

Pseudomonas Aeruginosa-Fecal Coliform Relationships in Estuarine and Fresh Recreational Waters,
W77-09474 1019 5A

Pollution of Lake Michigan and Its Tributary Basin.
W77-09528 1019 5G

Effluent Guidelines and Standards, Pulp, Paper and Paperboard Point Source Category.
W77-09556 1019 5G

CPC International, Inc V Train (Review of Effluent Limitations for the Corn Wet Milling Industry).
W77-09579 1019 6E

Proceedings: Workshop on Non-Point Sources of Water Pollution.
W77-10159 1021 5G

Problems and Policy Alternatives: Agriculture,
W77-10161 1021 5G

The Technical Perspective (What is Quality Water),
W77-10162 1021 5G

Problems and Policy Alternatives: Mining,
W77-10163 1021 5G

Meeting Effluent Discharge Requirements and Water Reuse,
W77-10343 1021 5D

National Effluent Requirements for the Meat and Poultry Industry,
W77-10345 1021 5D

Variations in Effluent Quality and the Implications for Setting Effluent Standards,
W77-10371 1021 5G

National Renderers Association v Environmental Protection Agency (Review of EPA Effluent Limitations for Renderers).
W77-10498 1021 6E

Nebraska Issues Regulations Under Safe Drinking Water Act of 1976.
W77-10523 1021 5G

Water-Quality Data for the Eagle River Valley in the Vicinity of Eagle and Vail, West-Central Colorado,
W77-10555 1021 5B

Water Pollution Control Across the Nation,
W77-11159 1022 5G

Analysis of the Impact of Delaying Compliance with 1977 Water Quality Standards,
W77-11453 1022 5G

Aquaculture Projects.
W77-11460 1022 5G

Surveillance in Water Quality Management,
W77-11478 1022 5G

Influence of Pump Storage and Generation on Commercial Fisheries Potential of Reservoirs,
W77-11907 1023 5C

The Technical-Economic Model of Water Quality in the Sajo River (A sajo vizminosegi muszaki-kozgazdasagi modellje),
W77-12413 1024 5G

Advanced Sewage Treatment Fails Cost-Environmental Benefit Test.
W77-12431 1024 5G

An Express Method for Establishing Minimum Permissible Concentrations for Waters Used for Commercial Fishing, (In Russian),
W77-12979 1024 5A

WATER QUALITY TREND ANALYSIS

Detection of Trends in Water Quality Data from Records with Dependent Observations,
W77-04753 1010 5A

WATER QUALTY

Environmental Impact Assessment, Water Quality Analysis, Housatonic River,
W77-01957 1004 5G

WATER QUANTITY

The Operational Water Quantity Model,
W77-09204 1019 4A

WATER RATES

Rational Water Pricing in the Tucson Basin,
W77-02170 1005 6D

Pricing Urban Water,
W77-02171 1005 6D

Set Sewer Rates That Reflect Use,
W77-04663 1010 5G

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Industrial Effluent Surcharging: A Case Study of Kitchener, Ontario,
W77-09413 1019 5G

Impact of Municipal Water and Sewage Charges on Industry,
W77-09921 1020 5G

Potomac River (Hearings on the State of the Potomac River as to Water Supply and Water Pollution).
W77-11449 1022 6E

Water and Sewer Rates in Minnesota,
W77-11868 1023 6C

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

Towards a General Guideline of Irrigation Water Charging Policy,
W77-12826 1024 3F

WATER RECLAMATION

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation,
W77-10540 1021 3C

WATER REPELLANTS

Laboratory Testing of Water-Repellent Soil Treatments for Water Harvesting,
W77-01621 1004 4D

WATER REQUIREMENTS

Water Relations of Glycyrrhiza Glabra L. Under Desert Conditions,
W77-00500 1001 2I

Energy, Water, and the West,
W77-00542 1002 6D

The Impact of Proposed Federal Energy Development on Western Water Resources,
W77-00543 1002 4C

Water Resources in the Western States: Program Policy Initiatives.
W77-00547 1002 6D

Nonwater-Intensive Energy Resources.
W77-00549 1002 6D

The Cooling Water Equation,
W77-01468 1003 6D

Quenching Saldanha's Thirst.
W77-01473 1003 3E

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Water Use Implications for Nuclear Power Stations in the United States of America,
W77-02114 1005 6G

Water Requirements for Solar Energy,
W77-02122 1005 3E

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Water Quantity Requirements for Public Supplies and Other Uses,
W77-02969 1006 6D

The Growth and Yield of Poplar Cultures Under Watering and Fertilization Conditions, (In Bulgarian),
W77-03040 1006 3F

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

Water Usage and Wastewater Characterization at a Crops of Engineers Recreation Area,
W77-03362 1007 5A

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

Process and Environmental Technology for Producing SNG and Liquid Fuels,
W77-04204 1009 3E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Process Description and Adaptation Study,
W77-05379 1011 5G

Water Resources Issues for a Growing Coal Industry,
W77-05675 1012 6D

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

The Significance of Regulating the Water Regime of Agricultural Lands, (In Russian),
W77-06837 1014 3F

NCWQ Recommends Changes in Water Pollution Act,
W77-07237 1015 5G

Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V,
W77-07625 1016 6D

Optimization of Water Use for Irrigation,
W77-07851 1016 3F

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W77-08351 1017 4B

Improving Food Crop Production in the Sudan Savanna Zone of Northern Nigeria,
W77-08459 1017 3F

Effect of Water Deficiency on the Growth Rate of Some Winter Soft Wheat Cultivars, (In Bulgarian),
W77-08716 1018 3F

Estimated Evapotranspiration and Irrigation Requirements for Citrus,
W77-09406 1019 2D

Effective Precipitation of Various Application Depths,
W77-10168 1021 3F

Water Requirements for Mesquite (Prosopis Juliflora),
W77-10770 1021 2D

New Techniques in Planning a Water Management System: A Case Study of Cooperative Research Between Hungary and the USA,
W77-10821 1022 6A

On the Role of Leaf Water in Regulating Metabolism,
W77-11070 1022 2I

A Test of Alternatives for Meeting Public Potable Water Requirements,
W77-12159 1023 5G

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

WATER RESEARCH CENTRE (STEVENAGE-ENG UK)
Developments at Water Research Centre.
W77-04688 1010 5D

WATER RESOURCE DEVELOPMENT
Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

Improving Institutional Arrangements for Water Development in the State of Washington: Developmental and Environmental Trade-Offs and Constraints,
W77-08284 1017 6E

WATER RESOURCE MANAGEMENT
Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

WATER RESOURCE PLANNING ACT
Federal Riverbasin Planning in the Coastal Zone: The Long Island Sound Study.
W77-07232 1015 2L

WATER RESOURCE PROBLEMS
Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

WATER RESOURCE RESEARCH NEEDS
Water Resource Problems and Research Needs of North Carolina,
W77-02181 1005 9D

WATER RESOURCES
Water Resources of the Rock River Watershed, Southwestern Minnesota,
W77-00848 1002 7C

Water Resources of the Root River Watershed, Southeastern Minnesota,
W77-00849 1002 7C

Availability of Ground Water in the Area Surrounding the Trident Submarine Construction Facility, Kitsap County, Washington,
W77-00862 1002 4B

Water Resources of the Warm Springs Indian Reservation, Oregon,
W77-00864 1002 4A

The Canada Water Act, Annual Report, 1974-1975.
W77-00916 1002 5G

1971 Water Resources Act.
W77-01002 1002 6E

The Attitude and Interest of the Environmental Protection Agency in Multiple Objective Planning of Water and Related Land Resources,
W77-01153 1003 5G

The Department of Transportation - Use of Multi-Objective Planning,
W77-01158 1003 6B

Implementation of Multi-Objective Planning in the Department of Commerce,
W77-01159 1003 6B

Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

Estimation of Response Surface Gradients in Multiobjective Water Resources Planning,
W77-01167 1003 6A

Water Quality Control Under Uncertainty: Optimal Stopping Rules for Sampling,
W77-01176 1003 5G

The Saint John River System Models: A Case Study,
W77-01178 1003 5G

Linear Models for Groundwater Management,
W77-01180 1003 4B

Legal Problems Associated with the Role of Planning in Water Resources Management,
W77-01185 1003 6E

Education and Traning in Water Resources Planning,
W77-01344 1003 6B

Nonquantitative Methods in Water Resources Management,
W77-01348 1003 6B

Water Conflicts in Western Coal Development,
W77-01349 1003 3E

Water Available for Energy--Upper Colorado River Basin,
W77-01350 1003 3E

'Approaches to Multi-Objective Planning in Water Resource Projects,' by Bernard W. Taylor III, K. Roscoe Davis, and Ronald M. North,
W77-01510 1003 6B

Optimal Management of the Subsurface Environment,
W77-01884 1004 4B

Modele D'Amenagement et De Gestion D'un Grand Bassin Hydrographique, (A Model for the Design and Management of a Large Hydrographic Basin),
W77-01887 1004 4A

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

Bibliography and Selected Abstracts of Reports on Water Resources and Related Subjects for Arkansas Through 1975,
W77-02014 1004 10C

Water Resources of the Rainy Lake Watershed, Northeastern Minnesota,
W77-02032 1004 7C

Water Resources of the Little Fork River Watershed, Northeastern Minnesota,
W77-02033 1004 7C

Metarationality in Benefit-Cost Analyses,
W77-02123 1005 6B

On the Income Distributional Effects of Environmental Management Policies,
W77-02124 1005 5G

Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

USDA Research and Development on Effects of Energy Production and Use of Freshwater Resources,
W77-02656 1006 5G

Freshwater Ecological Effects,
W77-02657 1006 5G

Index to Water Resources Data for Illinois,
W77-02990 1006 7C

Water Resources of Australia and the Pattern of Population Concentrations,
W77-03278 1007 6D

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W77-03340 1007 4B

Use of Hybrid Computer Model in Resource Planning,
W77-03523 1007 6A

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W77-03704 1008 6E

ERTS-1, A New Window on Our Planet,
W77-03875 1008 7B

Water Resources of El Paso County, Colorado,
W77-03890 1008 6D

Water Availability of Jefferson County, Alabama,
W77-03894 1008 4A

Development of Fast Current Oil Response System,
W77-03904 1008 5G

Photogrammetric Experiments on Nearshore Mixing and Diffusion,
W77-03907 1008 2L

Development of an Oil-Water Pollution Monitoring System,
W77-03908 1008 5A

Incorporating Outdoor Recreation in a Model of Stream Flow Regulation and Water Quality Improvement,
W77-03932 1008 5G

Institutions and Objectives on the Water, Energy, Environment Interface,
W77-03934 1008 6B

Two Methods for Adding Information to the Resources Management Process,
W77-03935 1008 6B

Quasi-Public Goods: Pricing the Commons,
W77-03936 1008 6A

Multilevel Incremental Dynamic Programing,
W77-03937 1008 6A

Model Uncertainty in Flood Frequency Analysis and Frequency-Based Design,
W77-03940 1008 4A

Application of Game Theory in Water Management,
W77-04009 1008 6A

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

The Integration of Desalination Plant with Existing Australian Water Resources,
W77-04018 1008 3A

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W77-04202 1009 6B

Water Resources of South-Central Missouri,
W77-04223 1009 7C

Water Resources of the Big Fork River Watershed, North-Central Minnesota,
W77-04233 1009 7C

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Effect of Industrial Activity on River Runoff in the Central Ural,
W77-04258 1009 4C

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

Ecological Modeling in a Resource Management Framework,
W77-04493 1009 6G

Ecological Modeling in a Resource Management Framework: An Introduction,
W77-04494 1009 6G

Introductory Remarks on the State Space Modeling of Water Resource Systems,
W77-04506 1009 6A

Mathematical Models,
W77-04523 1009 6A

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Economic Models,
W77-05017 1010 6A

Multiobjective Water-Resources Planning,
W77-05018 1010 6A

Mathematical Modeling and Water-Resources Decision-Making,
W77-05019 1010 6A

Reorientation of Urban-Related Water Resources Research,
W77-05188 1011 3D

Optimal Design of Multilevel Branching Sewer Systems,
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W77-06531 1013 6D

Historical and Geographical Evolution of Water Law and Its Role in the Management and Development of Water Resources,
W77-06536 1013 6E

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

Methods for Control of the Regimes for Water Resources Systems,
W77-06717 1014 4A

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

Mathematical Model of Water Resources Utilization in a River Basin,
W77-06719 1014 4A

Construction and Adjustment of a Two-Layer Mathematical Model of the Llobregat Delta,
W77-06722 1014 4A

La Science des Systemes dans la Planification des Ressources en Eau,
W77-06736 1014 6A

A Dynamic Multisector Programming Approach to Regional Water Resource Management,
W77-06737 1014 6A

Shorebird Dependence on Arctic Littoral Habitats,
W77-06811 1014 6G

Reconnaissance of the Water Resources of the Clinton Quadrangle, West-Central Oklahoma,
W77-06959 1014 7C

Preliminary Assessment of the Water Resources of the Tulalip Indian Reservation, Washington,
W77-06971 1014 4A

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

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W77-07096 1014 5B

Bibliography and Index of North Dakota Water Resources 1878-1970,
W77-07140 1015 10C

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W77-07408 1015 6G

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Gains from Joint Operation of Multiple Reservoir Systems,
W77-07533 1015 4A

Economic Value of Low Flow Data,
W77-07537 1015 5D

Glossary of Water Resource Terms,
W77-07613 1016 10C

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W77-07630 1016 6G

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W77-08046 1016 6A

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W77-08858 1018 6B

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W77-08872 1018 6B

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W77-09296 1019 4C

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W77-10808 1022 6A

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W77-10810 1022 4B

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W77-10821 1022 6A

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W77-10844 1022 6B

Quantifying Societal Goals: Development of a Weighting Methodology,
W77-10850 1022 6A

Index of Lake Basin Land Use for Land Use Planning Purposes,
W77-10852 1022 5G

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W77-01087 1003 6E

WATER RESOURCES CONTROL BOARDS

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W77-03689 1008 6E

WATER RESOURCES DEVELMENT

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

WATER RESOURCES DEVELOPMENT

Social Impact Assessment: An Overview,
W77-00103 1001 6B

Energy, Water, and the West,
W77-00542 1002 6D

The Impact of Proposed Federal Energy Development on Western Water Resources,
W77-00543 1002 4C

Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

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W77-00547 1002 6D

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Research to Develop Ecological Standards for Water Resources,
W77-01054 1003 6G

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W77-01079 1003 6E

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W77-01152 1003 6B

Emerging Corps of Engineers Guidelines for Implementing the Planning Requirements of WRC's Principles and Standards and Related Policies,
W77-01154 1003 6B

Implementation of Multiple Objective Planning by the Soil Conservation Service,
W77-01155 1003 6B

Philosophy of Multiple Objective Planning in the Bureau of Reclamation,
W77-01156 1003 6B

The Tennessee Valley Authority and Multiple Objective Planning,
W77-01157 1003 6B

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W77-01186 1003 6E

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W77-01187 1003 6G

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W77-01269 1003 4A

The Cost-Effectiveness Approach in Analyzing a Water Supply Project for the Santa Elena Peninsula, Ecuador,
W77-01270 1003 6B

Federal Manpower in Water Resource Engineering,
W77-01342 1003 6B

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W77-01344 1003 6B

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W77-02104 1005 4D

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W77-02115 1005 3A

Law, Hydrology, and Surface-Water Supply in the Upper Colorado River Basin,
W77-02119 1005 6E

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W77-02828 1006 6G

Hydrology,
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W77-03547 1007 6B

The California State Water Project in 1975.
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The State of Utah Water.
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W77-03561 1007 6B

Coming Showdown: Ocean Nationalism and the Senate 200-Mile Shelf Bill,
W77-03591 1007 6E

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

The Projected Economic Impact of the Richard B. Russell Dam and Lake Upon South Carolina,
W77-03735 1008 6B

Segments of a Vicious Circle: Land Degradation and Water Resources,
W77-03740 1008 4C

Economic Modeling for Water Policy Evaluation.
W77-03924 1008 6A

Modeling and Information Handling in Environmental Science,
W77-03926 1008 5G

Models of Agricultural Water, Land use and the Environment,
W77-03927 1008 6A

Ground Water Management and Surface Water Development for Irrigation,
W77-03929 1008 4B

Coordinating Scale and Sequencing Decisions for Water Resources Projects,
W77-03930 1008 6A

Reliability, Trade-Offs, and Water Resources Development Modeling with Multiple Crops,
W77-03939 1008 6A

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W77-04013 1008 6B

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W77-04112 1009 6B

Attitudes and Interactions of Citizen Advisory Groups and Governmental Officials in the Water Resources Planning Process,
W77-04294 1009 6B

The Coast: Where Energy Meets the Environment,
W77-04351 1009 6E

LOS III: Prospects and Problems,
W77-04353 1009 6E

Department of Ecology,
W77-04358 1009 6E

An Evaluation of Title III Water Resources Planning Grants in States,
W77-04902 1010 6E

National Systems of Water Administration.
W77-04914 1010 6E

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

Responsible Development and Reasonable Conservation,
W77-05031 1010 6B

Uncertainty and Planning for Water Pollution Control,
W77-05253 1011 5G

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

In Sydney: Aid Planned for Developing Countries,
W77-05758 1012 6E

Conservational Water Pricing for Increased Water Supply Benefits,
W77-05993 1012 6D

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
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Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

Water Resources Availability, Quality, and Cost in Northeastern Illinois,
W77-06531 1013 6D

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W77-06534 1013 6E

Between Scylla and Charybdis: Part I: Caracas,
W77-06550 1013 6E

Colorado River Compact.
W77-06579 1013 6E

Mathematical Models in Hydrology.
W77-06708 1014 2A

Indices of Water Restriction and Water Deficiency Tolerance,
W77-06711 1014 6A

The Methods of Distribution of Water Resources in River Development Systems,
W77-06726 1014 4A

Evolution and Objectives of River Basin Commissions in the United States,
W77-07249 1015 6E

Pecos River Compact.
W77-07262 1015 6E

Appropriation of Water--Permits, Certificates and Licenses--Survey.
W77-07265 1015 6E

Bunger v. Uncompahgre Valley Water Users Association (Conditional Water Permits).
W77-07267 1015 6E

Hydrology,
W77-07494 1015 2A

Public Participation in Water Resource Development,
W77-07526 1015 6B

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

Accounting for Non-Economic Goals in Benefit-Cost Analysis,
W77-07543 1015 6B

Broadening the Approach to Evaluation in Resources Management Decision-Making,
W77-07545 1015 6B

Imperatives of Water Resources Planning in the Developing Economy of India,
W77-07555 1015 6A

Appraisal of Areawide Waste Water Planning,
W77-07874 1016 5G

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

Optimal Operation of Water Resources Systems--1,
W77-08047 1016 4A

Planning of Systems for Regional Development in Water Resources,
W77-08049 1016 6A

Modeling Multiple-Use in Natural Areas: Part II - The Santee Swamp Study,
W77-08050 1016 6A

The National Conference on Water.
W77-08131 1017 6E

Department of Water Resources,
W77-08141 1017 6E

Final Report of Committee VII (Final Recommendations of the International Conference on Water Law and Administration),
W77-08187 1017 6E

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

Multiple Objective Planning: Small Watersheds,
W77-08350 1017 6B

Determination of Water-Resources Policies in Arid Lands,
W77-08453 1017 6B

Analysis of Supply and Demand of Urban Oriented Nonreservoir Recreation.
W77-08871 1018 6B

Conclusions and Recommendations for the United Nations Water Conference (Preliminary Outline),
W77-08965 1018 6E

As an Incident of National Sovereignty, the United States Has Paramount Rights and Power in the Seabed and Subsoil of the Outer Continental Shelf,
W77-08974 1018 6E

Snake River Interstate Compact.
W77-08996 1018 6E

Groundwater Resources of Australia.
W77-09103 1019 4B

A Multi-Parameter Estuary Model,
W77-09165 1019 5B

Water Resource and Land Use Problems in Western Australia,
W77-09296 1019 4C

Simultaneous Investment-Allocation: An Application of Generalized Benders Decomposition to Water Planning,
W77-09466 1019 6A

Arid Lands of Sub-Saharan Africa.
W77-09934 1020 6E

Development of a Comprehensive TVA Water Resource Management Program,
W77-10289 1021 6A

A Mathematical Model for Transient Open Channel Flow: A Water Resource Planning and Management Tool,
W77-10290 1021 2E

Hierarchical Analyses of Water Resources Systems, Modeling and Optimization of Large-Scale Systems,
W77-10418 1021 6A

Federal and State Controls Over Land/Water Development in Navigable and Non-Navigable Waters,
W77-10470 1021 6E

Water and Land Development (Water Resources Development).
W77-10493 1021 6E

Current Trends in Water Reclamation Technology,
W77-10649 1021 5D

Dynamic Model for Long-Term Development of Water Resources Management,
W77-10820 1022 6A

Integrated Surveys of Land and Water Resources for Development Purposes,
W77-10824 1022 6A

Soil, Water, Air Sciences Research.
W77-10917 1022 9D

Hydrologic Engineering Methods for Water Resources Development: Volume 8, Reservoir Yield,
W77-10991 1022 8B

International Symposium on Brackish Water as a Factor in Development.
W77-11055 1022 3C

Solar Energy Utilization for Arid Zone Development,
W77-11090 1022 3A

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

Future Water Policies (A Commentary on the National Water Commission Report),
W77-11160 1022 6E

Advances in Box-Jenkins Modeling, 1. Model Cconstruction,
W77-11214 1022 2A

Advances in Box-Jenkins Modeling, 2. Applications,
W77-11215 1022 2A

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

Institutions for Water Management in a Changing World,
W77-11466 1022 6E

A Multicriteria Analysis for Water Resource and Land Use Development,
W77-11773 1023 6A

Impact of Water Resources on Vector-Borne Diseases,
W77-11774 1023 5B

Future Problems and Water Resources Research Needs of the Illinois River System.
W77-11937 1023 6B

Water and Development in Saudi Arabia,
W77-11991 1023 4B

Conservation in Kano,
W77-11993 1023 4B

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

Water Quality Management in the Soviet Union,
W77-12398 1024 5G

Water in Kuwait,
W77-12837 1024 3A

Water Resources Development by the U.S. Army Corps of Engineers in Utah.
W77-12838 1024 6G

Impacts of Water Availability on Residential Development,
W77-12891 1024 6D

Opportunities for Improvement in the Development and Evaluation of Design Alternatives for Federal Water Resources Projects (Report to the Congress).
W77-12898 1024 8D

WATER RESOURCES DEVELOPMENT ACT

Corps' New Look in Flood Control: No Dams, Levees,
W77-03593 1007 4A

Flood Plains for Open Space and Recreation.
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WATER RESOURCES PLANNING

Pennsylvania Tries New Water Quality Management Plan,
W77-00107 1001 5G

WATER RESOURCES PLANNING ACT

An Evaluation of Title III Water Resources Planning Grants in States,
W77-04902 1010 6E

Assessing Program Impact--Water Resources Planning Act, Title III,
W77-05989 1012 6E

Evolution and Objectives of River Basin Commissions in the United States,
W77-07249 1015 6E

WATER RESOURCES RESEARCH ACT

Report on Tenth Annual Water Resources Research Conference, Sponsored by Office of Water Research and Technology, April 9-10, 1975.
W77-03206 1007 9D

WATER RESOURCES RESEARCH PROGRAM

Federal Water Resources Research Program for 1973 and 1974, Committee on Water Resources Research of the Federal Council for Science and Technology, (1976).
W77-00531 1002 9D

WATER RESOURCES SYSTEMS

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

WATER RESTRICTION INDICES

Indices of Water Restriction and Water Deficiency Tolerance,
W77-06711 1014 6A

WATER REUSE

Water-Reuse Systems Star at Cincinnati Aiche Meeting,
W77-00054 1001 5D

An Overview: So You Want to Recycle your Wastewater. How Should You Begin. Is it Feasible,
W77-00079 1001 5D

Wastewater Treatment by Reverse Osmosis,
W77-00081 1001 5D

Paper Chemical Reclamation and Reuse Via Reverse Osmosis,
W77-00340 1001 5D

Water Quality Aspects of Well Recharge with Reclaimed Water, Bay Park, New York,
W77-00492 1001 5D

Infiltration Lagoons for Tertiary Treatment of Stabilization Pond Effluent,
W77-00540 1002 5D

Wastewater Recycling Along Transportation Corridors,
W77-00611 1002 5G

Wastewater Irrigation - The Price is Right,
W77-00613 1002 5D

Let's Consider Land Treatment, Not Land Disposal,
W77-00614 1002 5D

Reclaiming Water,
W77-00759 1002 5D

A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

Metals in Urban Drainage Systems and their Effect on the Potential Re-Use of Purified Sewage,
W77-01362 1003 5D

Water Reclamation - Quality Targets and Economic Considerations,
W77-01440 1003 5D

Sand 'Sponge' Will Store Reclaimed Water.
W77-01451 1003 4B

Engineering Economics of Water Reclamation,
W77-01466 1003 5D

Organization of Work on the Sanitary Protection of Water Bodies in the Ryazan Oblast, (In Russian),
W77-01578 1004 5D

Hygienic Study of the Toxic Properties of Methanol-Containing Reclaimed Water, (In Russian),
W77-01602 1004 5C

Some Problems of Environmental Protection in Connection with the Development of Nonferrous Metallurgy in the North Caucasus, (In Russian),
W77-01605 1004 5G

Irrigation of Corn with Effluents from Fermentation and Yeast-Producing Plants (Oroshenie kukuruzy stochnymi vodami gidrolizno-drozhzhevogo proizvodstva),
W77-01645 1004 5D

Whitewater System Closure in NSSC Corrugating Medium Manfacture,
W77-01673 1004 5D

Water Recycle Treatment System for Use in Metal Processing,
W77-01724 1004 5D

Recreational Reuse of Muncipal Wastewater -- Phase II,
W77-01824 1004 5D

New Developments in Utilization of Wastes from Food Industry Plants.
W77-01992 1004 5D

Distillery Wastes as Fertilizer.
W77-01993 1004 5D

Laundering and Dry-Cleaning,
W77-02005 1004 5D

Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

Wastewater Reuse-Industrial, Municipal, or Both,
W77-02358 1005 5D

A Study of Bacterial Aerosols at a Wastewater Irrigation Site,
W77-02392 1005 5A

Spray Irrigation of Waste Water on Citrus Groves,
W77-02544 1005 5D

Hyperfiltration for Renovation of Textile Finishing Plant Wastewater,
W77-02557 1005 5D

Chlorides in the Kraft Recovery System. I. Chlorides in the Recovery Boiler, and a Mechanism for Chloride Removal,
W77-02559 1005 5D

Chlorides in the Kraft Recovery System. II. Process and Equipment Aspects on a Closed Bleached Kraft Mill,
W77-02560 1005 5D

Effluent-Free Bleached Kraft Pulp Mill. VIII. Bleach Plant Renovation and Design,
W77-02562 1005 5D

Automation of Total Phenolic Content Determination with the Folin-Ciocalteu Reagent. Application to the Study of Waste Waters from Fiberboard Mills (Automatisation de la methode de dosage des composes phenoliques totaux par le reactif de Folin-Ciocalteu. Application a l'etude des eaux residuaires des usines de panneaux de fibres de bois),
W77-02584 1006 5A

Impact of Water Conservation in the Design of Modern Oil Refineries,
W77-02602 1006 5D

Eighth Meeting of the IULTCS Tannery Wastes Commission, Svendborg, Denmark, 21st to 23rd May 1975.
W77-02603 1006 5D

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

Sanitary-Bacteriological Study of the Effectiveness of Decontaminating the Sewage of Voroshilovgrad on Sewage Farms, (In Russian),
W77-03128 1007 5D

Renovation of Municipal Wastewater for Groundwater Recharge by the Living Filter Method,
W77-03147 1007 5D

Suitability of Lagoon Effluents for Irrigation in South Dakota,
W77-03152 1007 5D

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

Research Needs for the Potable Reuse of Municipal Wastewater,
W77-03356 1007 5D

Waste-Treatment 'Farm' Harvests Firms.
W77-03420 1007 5D

U. S. Air Force Greens Colorado.
W77-03431 1007 5D

Innovation is an Old Idea--With A Big Future,
W77-03482 1007 5D

Wastewater's Future is Cloudy,
W77-03577 1007 5D

Keep Cool with Sewage Effluent - A Two-Way Saving of Water,
W77-03578 1007 3E

Reduction of Fresh Water Consumption at the Kondopoga Mill for the Manufacture of Pulp (Opyt raboty kondopozhnogo kombinata po cokrashcheniyu raschoda svezhei vody v tsellyuloznom proizvodstve),
W77-03790 1008 3E

Manufacture of Boxboard in a Closed Water Cycle (Proizvodstvo korobochnogo kartona pri zamknutom vodooborote),
W77-03791 1008 3E

Design of an Efficient Water System for a Kraft Pulp Mill,
W77-03804 1008 5D

Inventory of Waste Water Production and Waste Water Reclamation in California 1973.
W77-04558 1009 5D

Studies on Magnesium-Based Semichemical Pulps (4) - The Chemical Recovery from the Waste Liquors and their Reuse,
W77-04634 1010 5D

Sewage to Aid City Power Plant.
W77-04697 1010 5D

Reduction in Volume of Viscose-Alkali Effluents and Their Purification (Umen'shenie kolichestva viskozno-shchelochnykh stokov i ikh ochistka),
W77-04808 1010 5D

Opportunities and Risks of Closing the Water Cycle in Paper Mills (Chancen und Risiken der Wasserkreislaufschliessung in Papierfabriken),
W77-04815 1010 5D

Sulfite Versus Kraft from the Point of View of Environmental Protection (Sulfit versus Sulfat aus der Sicht des Umweltschutzes),
W77-04816 1010 5D

Wastewater Problems and Economy (Abwasserprobleme und Wirtschaftlichkeit),
W77-04818 1010 5D

Reclamation of Water from Wastes in Southern California.
W77-04850 1010 5D

Getting More from a Limited Natural Resource.
W77-04911 1010 6E

The Reuse of Water in Commercial Raising of Catfish - Phase Two,
W77-05103 1011 5D

Activated Carbon Adsorption in Municipal Waste Water Treatment and Reuse Systems,
W77-05332 1011 5D

Recycling Agricultural Runoff,
W77-05333 1011 5D

Recycling of Sewage Effluent by Irrigation: A Field Study on Oahu, Final Progress Report for August 1971 to June 1975.
W77-05372 1011 5D

Land Disposal of Sewage,
W77-05526 1011 5D

Water Re-Use in Japan,
W77-05528 1011 5D

Effluent Waste Treatment Process and Apparatus,
W77-05665 1012 5D

Closed-Cycle Utilization of Fermentation Industry Effluents (Zamknutyi tsikl ispol'zovaniya otkhodov gidroliznogo proizvodstva),
W77-05689 1012 5D

New In-Plant Technology to Reduce Pollution from a Sodium Base Sulphite Mill,
W77-05699 1012 5D

Water Reuse in 100% Secondary Fibre Pulping Mill,
W77-05705 1012 5D

The Use and Re-Use of Sewage Effluent,
W77-06116 1013 5D

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

Processing of Combined Domestic Bath and Laundry Waste Waters for Reuse as Commode Flushing Water,
W77-06196 1013 5D

Method and Apparatus,
W77-06446 1013 5D

State-of-the-Art Review of Processes for Treatment and Reuse of Potato Wastes,
W77-06949 1014 5D

Purifying Water,
W77-07061 1014 5D

Application of Municipal Refuse and Liquid Sewage Sludge to Agricultural Land: II. Lysimeter Study,
W77-07080 1014 5D

Waste Water Reuse Practice in the United States,
W77-07087 1014 5D

Large-Scale Reverse Osmosis Processing of Metal Finishing Rinse Waters,
W77-07207 1015 5D

Waste Water Reclamation System Ups Productivity, Cuts Water Use,
W77-07210 1015 5D

Great Lakes Paper Launches First Closed-Cycle Kraft Pulp Mill.
W77-07218 1015 5D

Fifty Million Dollars Is a Lot of Fish,
W77-07219 1015 5D

The Desalting and Recycling of Waste Waters from Textile Dyeing Operations Using Reverse Osmosis,
W77-07220 1015 5D

Land Application of Digested Sludge Under Adverse Conditions.
W77-07337 1015 5D

Direct and Indirect Waste Water Reuse for Municipal Purposes,
W77-07866 1016 5D

Waste Water Reclamation in St. Croix,
W77-07875 1016 5D

A Second Look at Water Reuse,
W77-07908 1016 5D

Cost of High Quality Waste Water Treatment for Reuse,
W77-07930 1016 5D

Waste Water Reclamation at St. Croix, U.S. Virgin Islands,
W77-08086 1016 4B

Waste-Water Process,
W77-08100 1016 5D

Kraft Mill Recovery System,
W77-08258 1017 5D

Forward Osmosis Extractors,
W77-08340 1017 3A

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

Health Considerations in Use of Tertiary Effluents,
W77-08513 1017 5F

The Development of a Test for the Potability of Water Treated by a Direct Reuse System,
W77-08758 1018 5A

Segregation and Reclamation of Household Wastewater at an Individual Residence,
W77-08806 1018 5D

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

Effects of Treated Municipal Wastewater and Commercial Fertilizer on Growth, Fiber, Acid-Soluble Nucleotides, Protein and Amino Acid Content in Wheat Hay,
W77-08876 1018 5C

Land Application of Waste Water, A Bibliography.
W77-09265 1019 5D

Water Reclamation: Technology and Public Acceptance,
W77-09317 1019 5D

Membrane Ultrafiltration for Treatment and Water Reuse of TNT-Manufacturing Wastes,
W77-09412 1019 5D

The Renovation and Re-Use of Wastewater,
W77-09686 1020 5D

Relationship of Effluent Limitations to Future Pulp Mill Closures,
W77-09727 1020 5D

Fiberboard Mill Recycles Water.
W77-09728 1020 5D

Brown (Co.) Recycles De-inking Water on Tissue-Grade Products,
W77-09732 1020 5D

Closed-Cycle Mill Eliminates Pollution While Also Saving Money,
W77-09740 1020 3E

Water Reuse in a Paper Reprocessing Plant,
W77-09757 1020 5D

An Approach to Reduce Water Consumption in Neighborhoods Through Reuse,
W77-09855 1020 5D

Concurrent Waste Water Renovation and Solid Waste Composting,
W77-09879 1020 5D

Possibilities of Recycling in South Africa, Choices and Conflicts,
W77-10221 1021 5D

Fish Water Flats Reclamation Works.
W77-10222 1021 5D

Meeting Effluent Discharge Requirements and Water Reuse,
W77-10343 1021 5D

An Evaluation of Water Reuse For Municipal Supply,
W77-10444 1021 5D

Renovated Wastewater as a Supplementary Source for Municipal Water Supply: An Economic Evaluation,
W77-10540 1021 3C

Trace Elements in Wastewater,
W77-10577 1021 5D

Can Irrigation with Municipal Waste Water Conserve Energy,
W77-10579 1021 5E

Irrigation Trial with Morro Bay Wastewater,
W77-10623 1021 5D

Irrigating with Wastewater in Sonoma County,
W77-10624 1021 5D

Albuquerque Closes Water-Wastewater Cycle.
W77-10633 1021 5D

Current Trends in Water Reclamation Technology,
W77-10649 1021 5D

Determination of the Degree of Accumulation of Residual Liquor Components During Recycling of the Liquor (Opredelenie stepeni nakopleniya komponentov posledrozhzhevoi brazhki pri vozvrate ee v proizvodstvennyi tsikl),
W77-10697 1021 3E

Great Lakes Paper (Co.) Launches First Closed-Cycle Kraft Pulp Mill.
W77-10710 1021 5D

Discussion of the Rapson Concept for a Closed-System Bleached Kraft Pulp Mill (Beseda o Rapsonove projektu uzavrene vyroby belene sulfatove buniciny).
W77-10711 1021 5D

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

Possibilities of Waste Recycling in South Africa - Choices and Conflicts,
W77-11551 1023 5D

Possibilities of Waste Recycling in South Africa - II,
W77-11552 1023 5D

Microbiology of Waste Treatment, (Literature Review),
W77-11753 1023 5F

An Investigation into Environmental Effects of Sewage Effluent Reuse at the Kane'Ohe Marine Corps Air Station Klipper Golf Course,
W77-11792 1023 5D

Pilot Plant Experiences in Demineralization of Secondary Effluent Using Electrodialysis,
W77-11914 1023 5D

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

California's Water Reclamation and Desalinization Projects,
W77-12295 1024 5D

Water Usage in Paper and Board Mills,
W77-12344 1024 3E

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

Dual Water Systems -- Design,
W77-12402 1024 5D

Effects of Treated Municipal Waste Water on Growth, Fiber, Protein, and Amino Acid Content of Sorghum Grain,
W77-12404 1024 5E

Bay-Area Industries to Re-Use Treated Wastewater.
W77-12437 1024 5D

Development and Testing of a Wastewater Recycler and Heater,
W77-12493 1024 5D

Use of Reverse Osmosis for Valuable By-Products Recovery,
W77-12795 1024 3A

Recirculating Sewerage System,
W77-12921 1024 5D

WATER RIGHTS

Water Problems and Property Rights--An Economic Perspective,
W77-00174 1001 6B

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

Harbors, Tide Waters and Water Rights.
W77-01003 1002 6E

Water Rights Registration.
W77-01109 1003 6E

WATER RIGHTS

Water and Water Rights,
W77-01119 1003 6E

Water Available for Energy--Upper Colorado River Basin,
W77-01350 1003 3E

Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Rights to Water.
W77-03494 1007 6E

Water Rights and Liens.
W77-03499 1007 6E

Ditch Companies.
W77-03501 1007 6E

Irrigation and Water Rights.
W77-03502 1007 6E

General Basis of Water Rights in Utah.
W77-03504 1007 6E

Water, Lighting and Sewers.
W77-03506 1007 6E

Water Rights,
W77-03599 1007 6E

California Water Law in Perspective,
W77-03689 1008 6E

General State Powers over Water.
W77-03703 1008 6E

Pollution Control Hearings Board Shorelines Hearings Board Council on Environmental Policy,
W77-04360 1009 6E

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Colorado River Water Conservation District V United States (The Doctrine of Prior Appropriation as Applied to Indian Water Rights on Reservations),
W77-04933 1010 6E

The Entitlement to Municipal Water Service: Constitutional Problems in the Determination of a Public Utility Service,
W77-05053 1010 6E

Acquisition of Water Rights.
W77-05070 1010 6E

The Law of Diffused Surface Water in Eastern Riparian States,
W77-06042 1012 6E

City of Corpus Christi V Neuces County Water Control and Improvement District No 3 (Water Improvement District Allowed to Supply Water for Domestic Use to Neighboring Town).
W77-06065 1012 6E

Water Rights.
W77-06074 1012 6E

Legal Criteria Needed to Provide Effective Instruments for Inventory, Development, Conservation and Use of Water Resources at the Local Level,
W77-06533 1013 6E

Water Rights Generally.
W77-06581 1013 6E

Abandonment of Water Rights,
W77-06582 1013 6E

Federal Statutory Modification of Private Water Rights in South Florida,
W77-08112 1017 6E

Bear River Compact,
W77-08155 1017 6E

New Water Legislation--Drafting for Development, Efficient Allocation and Environmental Protection,
W77-08188 1017 6E

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

Unlawful Use, Diversion or Waste of State Water.
W77-08995 1018 6E

Water-Use Leasing Act.
W77-09010 1018 6E

Selected Problems in Idaho Ground Water Law,
W77-09049 1018 6E

State Water Resources Control Board v Forni (Riparian Rights Doctrine Modified by Constitutional Provision).
W77-09563 1019 6E

The McCarren Amendment and Indian Tribes' Reserved Water Rights,
W77-10453 1021 6E

Confiscation of Indian Winter's Rights in the Upper Missouri River Basin,
W77-11154 1022 6E

Canadian River Compact.
W77-11188 1022 6E

Procedure for Determining or Establishing Water Rights in State Streams.
W77-11197 1022 6E

Indian Water Rights.
W77-11447 1022 6E

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

Water Law in New Zealand,
W77-12883 1024 6E

WATER RIGHTS (NON-RIPARIAN)

Rights to Water.
W77-03494 1007 6E

A Sweeping Sea Law in 1976.
W77-03533 1007 6E

Maritime Law: To Fish or Cut Bait.
W77-04917 1010 6E

WATER RIGHTS (NON-RIPARIANS)

United States V Kaiser Aetna (Development Changing Nature of Pond from Private to Subject to Public Navigation Servitude).
W77-01107 1003 6E

Water Rights Registration.
W77-01109 1003 6E

Water Rights Determination and Administration Act of 1969.
W77-04386 1009 6E

Public Rights in Pennsylvania Waters,
W77-08362 1017 6E

Water Rights, Conservation and Recreation Planning,
W77-10445 1021 6E

WATER SALVAGE

Water Salvage Potentials in Utah, Volume II, Evaporation Suppression by Reservoir Destratification,
W77-01164 1003 2D

WATER SAMPLING

Development of Water Quality Sampling Programs,
W77-00618 1002 5A

Erams Surface and Drinking Water Components, January--March 1974.
W77-00954 1002 5A

In-Situ Oceanographic Sample Separator,
W77-01223 1003 2L

Use of Automated Remote Sensing Techniques to Define the Movement of Tow-Generated Suspended Material Plumes on the Illinois and Upper Mississippi Rivers,
W77-02957 1006 2J

A Simple Tube-Type Water Profile Sampler,
W77-04717 1010 5A

A Squeezer for Efficient Extraction of Pore Water from Small Volumes of Anoxic Sediment,
W77-04892 1010 2J

Chemical Water Sampling in Lakes and Sediments with Dialysis Bags,
W77-04893 1010 2K

An In Situ Sampler for Close Interval Pore Water Studies,
W77-04894 1010 2K

Backflushing Filters for Field Processing of Water Samples Prior to Trace-Element Analyses,
W77-04981 1010 5A

Sample Collecting Apparatus,
W77-05652 1012 5A

Liquid Sampling,
W77-05658 1012 5A

A Light-Weight and Cheap Depth Sampler,
W77-07155 1015 5A

A Hand-Operated In Situ Water Sampler,
W77-07200 1015 5A

Photosynthetic Rates in Lake Superior,
W77-07450 1015 5C

Limitations of Single Water Samples in Representing Mean Water Quality 1. Thompson River at Shaw Spring, British Columbia,
W77-07563 1015 5A

Interlaboratory Quality Control Studies Nos. 12 and 13, Aluminum, Cadmium, Chromium, Cobalt, Copper, Lead, Iron, Manganese, Nickel and Zinc,
W77-07616 1016 5A

Liquid Sampler,
W77-08024 1016 7B

Micronutrient Analysis of Seawater Samples Taken at Deepwater Dumpsite 106--May 1974,
W77-09250 1019 5A

Analytical Results for Water-Column Samples Collected at Deepwater Dumpsite 106--May 1974,
W77-09251 1019 5A

Oceanographic Water Sampler,
W77-09799 1020 7B

Integrated Automatic Water Sample Collection System,
W77-10972 1022 7B

Composite Sampling Method and System,
W77-11920 1023 5A

All-Plastic Suction Lysimeters for the Rapid Sampling of Percolating Soil Water,
W77-12005 1023 5A

Two New Methods for Obtaining Water Samples from Shallow Aquifers and Littoral Sediments,
W77-12310 1024 7B

Water Quality Management--The Management Information Requirement,
W77-12394 1024 5G

A Survey of Commercially Available Automatic Wastewater Samplers,
W77-12481 1024 5A

WATER SAMPLING SYSTEMS

Integrated Automatic Water Sample Collection System,
W77-10972 1022 7B

WATER SAVING DEVICES

North Carolina Conference on Water Conservation.
W77-08820 1018 3D

WATER SHORTAGE

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

A Tragedy of the Commons in the Sahel,
W77-01908 1004 6G

Drought Hazard in the United States: A Research Assessment,
W77-02113 1005 3B

Getting More from a Limited Natural Resource.
W77-04911 1010 6E

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Water Resources and Water Utilization in Israel,
W77-09011 1018 6E

Hydrology of the Sahara,
W77-12834 1024 6D

WATER SOFTENING

Soft Water Can Mean Hard Disposal Problems,
W77-00589 1002 5E

Scale Inhibition and Compounds Therefore,
W77-00686 1002 5F

Removal of Organics from Water,
W77-00924 1002 5D

Ion Exchange Regeneration,
W77-01748 1004 5F

Septic Tank Study is Off and Running.
W77-06859 1014 5D

Experimental Study of Multi-Cation Diffusion in an Artifical Quartz Sandstone,
W77-08811 1018 2K

WATER-SOLUBLE FRACTION

Effect of No. 2 Fiel Oil and South Louisiana Crude Oil Water-Soluble Fractions on Hemoglobin Compensation and Hypoxia Tolerance in the Polychaetous Annelid, Neanthes Arenaceodentata (Moore),
W77-10262 1021 5C

A Preliminary Study of the Toxic Effects of Irradiated Vs. Non-Irradiated Water Soluble Fractions of No. 2 Fuel Oil,
W77-12869 1024 5C

WATER SOLUBLE FRACTIONS

Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

Effect of the Water-Soluble Fractions of Crude, Refined and Waste Oils on the Embryonic and Larval Stages of the Quahog Clam Mercenaria sp.,
W77-08794 1018 5C

WATER SOURCES

Artesian Wells and Storage Reservoirs, and Works Connected Therewith.
W77-07263 1015 6E

Water Movement in Soil from Trickle Source,
W77-07550 1015 2G

Electrical Water Prospecting.
W77-10100 1020 2F

New Solutions for Water Reservoirs in Irrigation Systems Fed by the Danube and Inland Rivers, (In French),
W77-10727 1021 3F

Elucidating Salination Mechanisms by Stable Isotope Tracing of Water Sources,
W77-11056 1022 5B

Dual Water Systems -- Design,
W77-12402 1024 5D

Hydrology of the Sahara,
W77-12834 1024 6D

WATER SPORTS

People and the Sound. Outdoor Recreation,
W77-06595 1013 6B

Oregon's Long-Range Requirements for Water. Forest Products Projections and Recreation Projections, Appendices IV and V.
W77-07625 1016 6D

WATER SPREADING

Erosion Control,
W77-04315 1009 4D

Density Currents and Their Applications,
W77-08844 1018 5B

Optimization of Runoff Agriculture on Reclaimed Mine Lands,
W77-11436 1022 3B

Movement of Moisture in the Unsaturated Zone in a Loess-Mantled Area, Southwestern Kansas,
W77-11872 1023 4B

Artificial Recharge Experiments on the Ship Creek Alluvial Fan, Anchorage, Alaska,
W77-12378 1024 4B

WATER STORAGE

Comments on the Storage of Water Vapour in the Atmosphere over South Africa,
W77-01365 1003 2B

Sand 'Sponge' Will Store Reclaimed Water.
W77-01451 1003 4B

Water-Retaining Capacity of the Roots of Several Forest Tree Species, (In Bulgarian),
W77-01504 1003 2I

Providing for Provident Dogons,
W77-01896 1004 3B

Soil Moisture in the Black River Basin, New York, During 1972-73, International Field Year for the Great Lakes (IFYGL),
W77-02023 1004 2G

Effect of Storage on Storm and Combined Sewers,
W77-02746 1006 5D

Optimal Long-Term Control of a Multipurpose Reservoir with Indirect Users,
W77-03938 1008 6A

Simulation of Profile Water Storage as Related to Soil Hydraulic Properties,
W77-05349 1011 2G

Harvesting Surface Runoff and Ephemeral Streamflow in Arid Zones,
W77-05946 1012 3B

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Water Divisions and Superintendents.
W77-06576 1013 6E

Optimal Complex Use of Controlled Water Resources of a Basin,
W77-06718 1014 4A

Streamflow Regulation by Artificial Recharge Fed from Upstream Surface Storage: Derivation of Control Rules,
W77-06725 1014 4A

Effect of Dip on the Subsurface Storage or Disposal of Fluid in Saline Aquifers,
W77-08204 1017 4B

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-08205 1017 4B

Effect of Dip on the Storage of Fresh Water (or the Disposal of Waste) in a Saline Aquifer,
W77-08288 1017 4B

Design and Operation of Rain Retention Basins (Entwurf und Betrieb von Regenruckhaltebecken),
W77-08547 1017 8A

Determination of Hydraulic Parameters to Estimate Water Movement and Water Storage in Undisturbed Soil: Comparison of Field and Laboratory Methods, (In German),
W77-09624 1020 2G

Effect of Viscosity Ratio on the Recovery of Fresh Water Stored in Saline Aquifers,
W77-10264 1021 4B

A Simple Effective Method for the Computer Simulation of Groundwater Storage and Its Application in the Design of Water Resource Systems,
W77-10660 1021 2F

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

Conservation in Kano,
W77-11993 1023 4B

Reservoir Management and the Water Scarcity Issue in the Upper Colorado River Basin,
W77-12839 1024 4A

WATER STRESS

Effect of Periodic Draining on Content of Free Amino Acids in Some Aquatic Macrophytes, (In Russian),
W77-04748 1010 2I

WATER STRUCTURE

Hydraulic Conductivity in Surface Active Soils,
W77-00441 1001 2G

Some Aspects of Nuclear Spin Relaxation of Adsorbed Water Protons in Biological Matrices, (In Russian),
W77-01563 1004 5A

Some Aspects of Nuclear Spin Relaxation of Water Adsorbate Protons in Biological Matrices, (In Russian),
W77-01564 1004 5A

Configuration Interaction Studies of the Excited States of Water,
W77-02153 1005 1A

WATER SUPPLY

The Economic Water Supply in Idaho,
W77-00538 1002 6B

Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

Kelly Ranch V Southeastern Colorado Water Conservancy District (Plan of Augmentation by Developer).
W77-01112 1003 6E

Pollution of Navigable Waters.
W77-01122 1003 6E

Pumping Policies in Water Supply,
W77-01177 1003 4A

A Computer-Based Telecontrol and Communication System for a Water Supply Network,
W77-01179 1003 4A

Water Law and New Technologies.
W77-01184 1003 6E

Energy for Water,
W77-01273 1003 6D

Potential for Water Yield Improvement in Arizona Through Riparian Vegetation Management,
W77-01282 1003 3B

Availability of Water for Coal Conversion,
W77-01345 1003 3E

Thor Across the Limpopo.
W77-01369 1003 8A

Harnessing the Cunene's Might.
W77-01376 1003 8C

Power and Water for South West Africa,
W77-01382 1003 3E

R26m Dam Plan for the Lowveld.
W77-01478 1003 8A

The Tugela-Vaal State Project, (Die Tugela-Vaal Staatswaterprojek),
W77-01490 1003 4A

Hygienic Aspects of the Central Water Heating, (In Russian),
W77-01559 1004 5G

Water in General and Its Industrial Use in Particular (Allgemeines ueber das Wasser und Besonderes ueber seinen industriellen Gebrauch),
W77-01661 1004 3E

Assessment of Water and Related Land Resources, 1975. Initial Identification of Water and Related Land Problems in New England,
W77-01688 1004 6G

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-01770 1004 6D

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

Prospects for an Agro-Industrial Complex on the Gaza-Sinai Sea Coast,
W77-02115 1005 3A

Pricing Urban Water,
W77-02171 1005 6D

Water Supply and Sewage Treatment in Arid Areas.
W77-02173 1005 5D

Polyelectrolyte Persistence in a Municipal Water Supply,
W77-02221 1005 5F

Hydrology of Lake County, Florida,
W77-02316 1005 4B

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Proceedings of Seminar Sessions on State Water Supply Planning, Sept. - Oct. 1975, (Executive Summary).
W77-02618 1006 6B

Proceedings of Seminar Sessions on State Water Supply Planning (Sept.-Oct. 1975).
W77-02619 1006 6B

Monitoring Western Energy Resource Developments,
W77-02651 1006 5G

Cooper River Rediversion Project, Bushy Park Water Supply Tests; Hydraulic Model Investigation,
W77-02939 1006 8B

Water Quantity Requirements for Public Supplies and Other Uses,
W77-02969 1006 6D

Ground-Water Resources of Wilson County, North Carolina,
W77-02984 1006 2F

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

Precautions to be Taken in the Construction and Maintenance of Water Supply and Sewer Systems (Precautions a Prendre Dans La Construction Et L'Entretien Des Reseaux D' Aqueduc Et D' Egout),
W77-03400 1007 8G

Monitoring of Community Water Supplies,
W77-03463 1007 5A

Water, Lighting and Sewers.
W77-03506 1007 6E

Suspension and Restoration of Right to Appropriate.
W77-03508 1007 6E

Protection of Water Supply.
W77-03719 1008 6E

Water and Sewage.
W77-03724 1008 6E

Ground-Water Resources and Geology of Jefferson County, Wisconsin,
W77-03889 1008 4B

The Integration of Desalination Plant with Existing Australian Water Resources,
W77-04018 1008 3A

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

Analyzing the Marginal Cost of Water Supply,
W77-04170 1009 6B

Development Capabilities Maps, Southeastern New England. Water and Related Lands Study.
W77-04206 1009 7C

Ground-Water Resources of the White River Junction Area, Vermont,
W77-04221 1009 4B

The Cost of Municipal Water Supply: A Case Study,
W77-04643 1010 5F

Summary, Phase 1 - Arizona State Water Plan: Inventory of Resource and Uses.
W77-04782 1010 6B

Analytical Study of the Ogallala Aquifer in Crosby County, Texas,
W77-04866 1010 4B

Rural Residential Water Demand: An Econometric and Simulation Analysis,
W77-05187 1011 6D

A Comparison Between a Monthly Simulation and an Annual Moran Model of Vaal Dam,
W77-05243 1011 4A

A Multinomial Analysis of Water Demand,
W77-05244 1011 6D

Optimization of Water Pumping Costs by Hierarchical Methods,
W77-05245 1011 6C

Natural Methods of Purifying Waste Waters and Utilizing Them in Agriculture, Bibliography, Parts 1 and 2,
W77-05306 1011 5G

Origin and Treatment of a Supersaturated River Water,
W77-05465 1011 5C

Observations on Gas Bubble Disease of Fish,
W77-05471 1011 5C

Removal of Excess Nitrogen in a Hatchery Water Supply,
W77-05472 1011 5C

The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

Models for Capacity Planning of Water Systems,
W77-05924 1012 6A

Conservational Water Pricing for Increased Water Supply Benefits,
W77-05993 1012 6D

U-Tube Oxygenation for Economical Saturation of Fish Hatchery Water,
W77-06023 1012 5C

City of Corpus Christi V Neuces County Water Control and Improvement District No 3 (Water Improvement District Allowed to Supply Water for Domestic Use to Neighboring Town).
W77-06065 1012 6E

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

Variations in Rainfall as a Natural Constraint on Agriculture,
W77-06240 1013 2B

Coping with Water Deficiency in Arid and Semiarid Countries Through High-Efficiency Water Management,
W77-06248 1013 3B

Proposed Water-Supply Investigations in Sidamo Province, Ethiopia,
W77-06340 1013 6D

Water Supply for the Arrero Pilot Area of the National Range Development Project, Sidamo Province, Ethiopia,
W77-06341 1013 6D

Pinellas County V. Lake Padgett Pines (Water Resources Act and Effect of Water Withdrawal Project),
W77-06574 1013 6E

People and the Sound. Water Management.
W77-06594 1013 6B

Management of Water and Related Land Resources in the State of Maine,
W77-06600 1013 6B

Optimal Seasonal and Short-Term Operation of a Reservoir Used for Flood Control and Water Supply,
W77-06724 1014 4A

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

Artesian Wells and Storage Reservoirs, and Works Connected Therewith.
W77-07263 1015 6E

Fire Effects on Water Supply, Floods, and Sedimentation,
W77-07318 1015 4C

Hydrology,
W77-07494 1015 2A

Capacity Expansion and Operational Planning for Regional Water-Resource Systems,
W77-07538 1015 6B

Evaluating Alternative Levels of Water and Sanitation Service for Communities in the Northwest Territories,
W77-07557 1015 6A

Oregon's Long-Range Requirements for Water. Irrigation and Food Products Projections, Appendix II,
W77-07623 1016 6D

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Trout and Salmon Culture (Hatchery Methods) Hatchery Water Supply,
W77-07726 1016 5G

Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

Water Quality Status and Trends in Minnesota--Indices for Water Supply and Ground Water Pollution,
W77-07794 1016 5A

Community Water Supply and Excreta Disposal in the Developing Countries,
W77-07865 1016 5G

Water and Waste Water Engineering for Low Income Communities in Developing Countries,
W77-07939 1016 5G

Watershed Management and Water Quality,
W77-07951 1016 5G

Study of Free Living Amoebae in the Waters of Strabourg: Preliminary Report, (In French),
W77-08016 1016 5A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

What We Can Do Before the Well Runs Dry--A Summary of WRC Report No. 35 --Residential Water conservation-Milne,
W77-08101 1017 3D

Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

Input-Output Modeling in Water Resources System Planning,
W77-08346 1017 6A

Methodology and Data for Analyzing Quantity, Quality and Economic Aspects of Minimum Streamflows, Appendices, Volume 2,
W77-08349 1017 5G

Sewage Treatment in Developing Countries,
W77-08635 1018 5D

Get Ready for Dual Water Systems,
W77-08645 1018 5G

Experimental Data on the Regulation of 1,2-Dibromopropane in Reservoir Water, (In Russian),
W77-08718 1018 5C

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Economic Evaluation of Idaho's Water Supply,
W77-08816 1018 6B

Water Supply Economics,
W77-08863 1018 6B

Observation Records of Ground Water Level, (In Japanese),
W77-08904 1018 4B

Molokai Irrigation and Water Utilization Project.
W77-09000 1018 6E

Simulation and Mathematical Modeling of Water Supply Systems - State-of-the-Art,
W77-09200 1019 4A

Capacity Expansion for Municipal Water and Wastewater Services: Incorporation of Uncertainty,
W77-09201 1019 5D

Hydrologic Impact Studies of Alternatives to Meet Water Needs in South Central Pennsylvania,
W77-09203 1019 6D

The Cost of Water Supply Utility Management,
W77-09209 1019 6B

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

Water Supply Systems Planning, Management and Communication Through an Interactive River Basin Simulation Model,
W77-09212 1019 6B

Urban Water Planning, A Bibliography, Volume 2.
W77-09264 1019 6B

Determination of Dug Well Debit Under Conditions of Desert Pasture Lands, (In Russian),
W77-09310 1019 4B

Institutional Constraints on Water Resource Development in Arid Lands,
W77-09316 1019 6E

A Unique Means of Obtaining Sea-Water,
W77-09692 1020 8E

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

The Cockfield Aquifer in Mississippi,
W77-09991 1020 7C

Water-Resources Appraisal of the Carson River Basin, Western Nevada,
W77-09992 1020 4A

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Rural Domestic Water System Peak Flows and Design Innovations,
W77-10176 1021 8B

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Public Water Supplies of North Carolina, Part 4. Northern Coastal Plain,
W77-10561 1021 6D

New Solutions for Water Reservoirs in Irrigation Systems Fed by the Danube and Inland Rivers, (In French),
W77-10727 1021 3F

Rethinking Our Approach to Water Supply Provision,
W77-10746 1021 6B

The Development of Modelling and Simulation Techniques Applied to a Computer-Based Telecontrol Water Supply System,
W77-10826 1022 4A

Predicting Instantaneous Peak Demand in Rural Domestic Water Supply Systems,
W77-10838 1022 4A

The Potential for Growth and Development in Tennessee,
W77-10916 1022 6D

Brackish Water as a Factor in Development of the Safford Valley, Arizona, U.S.A.,
W77-11058 1022 3C

Design and Performance of a Simple Solar Pump for Lift Irrigation Purposes,
W77-11086 1022 3F

Solar Distillation in India,
W77-11087 1022 3A

Solar Energy Utilization for Arid Zone Development,
W77-11090 1022 3A

Solar Energy Research at Cazri, Jodhpur--Achievements and Future Plans,
W77-11110 1022 3A

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

Save Our Invaluable Land, Inc v Needham (Applicability of FWPCA Amendments to Projects Already Funded).
W77-11199 1022 6E

Remote Sensing of Water Demand Information,
W77-11635 1023 6D

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

A Nonlinear Multilevel Model for Regional Water Resources Planning,
W77-11772 1023 6A

Recurrent Problems of Water Supply in Malta,
W77-11988 1023 3A

Agricultural Response to Changing Water Prices in Arizona,
W77-11997 1023 6C

An Emergency Water Supply for Small Aquarium Systems,
W77-12061 1023 7B

A Test of Alternatives for Meeting Public Potable Water Requirements,
W77-12159 1023 5G

Resource Information Applied to Water Sources and Discharges at Existing and Potential Power Plant Sites in Arizona and the Southwest,
W77-12263 1024 3E

Water in Kuwait,
W77-12837 1024 3A

The Need for a Reform of Water Use Law in Illinois,
W77-12884 1024 6E

WATER SUPPLY DEVELOPMENT

Geohydrology and Water Supply, Sheyma Island, Alaska,
W77-00851 1002 7C

Jarvis V State Land Department (Use of Water out of Critical Groundwater in Amount Equal to Annual Historical Maximum Use).
W77-01111 1003 6G

Kelly Ranch V Southeastern Colorado Water Conservancy District (Plan of Augmentation by Developer).
W77-01112 1003 6E

The Interface Between Planning and Water Legislation,
W77-01183 1003 6E

Water Law and New Technologies.
W77-01184 1003 6E

Quenching Saldanha's Thirst.
W77-01473 1003 3E

Facelift to Beat the Floods.
W77-01477 1003 8A

Legal Constraints on Urban Water Systems,
W77-03692 1008 3D

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

Water Resources and Water-Supply Development in Trinidad and Tobago,
W77-07785 1016 6D

An Economic Appraisal of Reuse Concepts in Regional Water Supply Planning,
W77-08347 1017 5D

PLANASA--A National Plan for Water Supply and Sewerage in Brazil,
W77-08646 1018 6E

An Evaluation of Water Reuse For Municipal Supply,
W77-10444 1021 5D

Water and Land Development (Water Resources Development).
W77-10493 1021 6E

Planning Model for Simulating Distribution and Cost in a Regional Water Supply System,
W77-10822 1022 6A

Source, Consumption and Use of Brackish Water in Israel,
W77-11061 1022 3C

Desalting's Role in Future Water Resource Management,
W77-11078 1022 3A

Development of a Solar Pump for Lift Irrigation Purposes,
W77-11428 1022 3F

Israel Strives for Efficient Use of Water Resources,
W77-11439 1022 3C

Conservation in Kano,
W77-11993 1023 4B

Potable Water from Wastewater--Denver's Program,
W77-12395 1024 5D

Impacts of Water Availability on Residential Development,
W77-12891 1024 6D

WATER SURFACE PROFILES

Hydrologic Engineering Methods for Water Resources Development, Volume 6, Water Surface Profiles,
W77-03105 1007 8B

WATER SYSTEMS

Methods for Control of the Regimes for Water Resources Systems,
W77-06717 1014 4A

WATER TABLE

Hydrodynamics of Perched Mounds,
W77-01141 1003 4B

Method for Lowering Ground Water,
W77-01196 1003 8B

Simulation of Root-Zone Water and Deep Seepage to a Water Table,
W77-02295 1005 2G

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Behavior of Ground Water Subject to Irrigation of Effluent - A Case Study,
W77-03158 1007 5D

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Drainage to a Water Table Analysed by the Green-Ampt Approach,
W77-04762 1010 2G

A Method for Computing and Comparing Upward Flow of Water in Soils From a Water Table Using the Flux/Unsaturated Conductivity Ratio,
W77-05533 1011 2G

A Water Management Model for High Water Table Soils,
W77-05983 1012 2G

Corn Yield and Nutrient Uptake as Affected by Water-Table Depth and Soil Submergence,
W77-06095 1012 3F

Depth and Seasonal Fluctuations in the Condition of the Groundwater of the Area Around the City of Ghent (Belgium), (In Dutch),
W77-06681 1014 2G

Fault Control of Subsidence, Houston, Texas,
W77-08662 1018 4B

Distribution of Corn Roots in Sandy Soil with a Declining Water Table,
W77-08676 1018 2I

Shape of a Streamline Water Table Near Inflow and Outflow Boundaries,
W77-09023 1018 2F

Character of Seepage of Precipitation to the Water Table in the Central Forest Steppe,
W77-09043 1018 4B

Water Table Lowering Between Two Drainage Ditches in Naturally Layered Soils on a Slope, (In German),
W77-09448 1019 4A

Drain Spacing Based on Dynamic Equilibrium,
W77-09698 1020 2F

Changes in Inorganic Nitrogenous Compounds from Septic Tank Effluent in a Soil with a Fluctuating Water Table,
W77-09907 1020 5B

Modification of Island Vegetation After Rising Groundwater Levels on the Danube Islands at Offingen, (In German),
W77-10725 1021 2I

Steady State Bi-Level Subsurface Drainage Theory for Soils of Varying Hydraulic Conductivity,
W77-10961 1022 2F

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

An Empirical Method for Simulation of Water Tables by Digital Computers,
W77-12546 1024 2F

Water-Table Management,
W77-12580 1024 4A

WATER TABLE AQUIFERS

Optimal Pumping Regimes in an Unconfined Coastal Aquifer,
W77-04873 1010 4B

Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

Stage, Discharge and Quality Changes in a Water Table Aquifer Related to Urbanization,
W77-05335 1011 4C

Guide for Data Collection to Calibrate a Predictive Digital Ground-Water Model of the Unconfined Aquifer in and Near the City of Modesto, California,
W77-08735 1018 2F

Analytical Solution for Steady Interface Flow in a Coastal Aquifer Involving a Phreatic Surface with Precipitation,
W77-10762 1021 2F

WATER TABLE FLUCTUATIONS

Water Requirements for Mesquite (Prosopis Juliflora),
W77-10770 1021 2D

Effect of Depth and Quality of Ground Water on Soil Salinization: A Field Study with a Fluctuating Water Table,
W77-12000 1023 2G

WATER TABLES

The Handling of Nitrogenous Wastes in Rural India,
W77-09900 1020 5D

WATER TANKS

Dual Technological Systems in Water and Grain Storage,
W77-11638 1023 6B

WATER TEMPERATURE

Sea Surface Temperature Fluctuations at Tidal Frequencies at Weather Ships Charlie and Delta,
W77-00137 1001 2L

Climatological Numerical Models of the Surface Mixed Layer of the Ocean,
W77-00361 1001 2L

The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure,
W77-00362 1001 2L

Water Temperature Simulation,
W77-00616 1002 5B

On a Mid-Ocean Thermocline Regime,
W77-00656 1002 2L

Some Theoretical Considerations of Thermal Discharge in Shallow Lakes,
W77-00716 1002 5C

Suspended Sediment, Solar Radiation and Heat in Agricultural Reservoirs,
W77-00809 1002 2J

Temperature and Salinity Microstructure in the Pacific Equatorial Undercurrent,
W77-01613 1004 2L

Vertical Profiles of Temperature and Fine-Scale Velocity Structure in the Thermocline,
W77-01615 1004 2L

Comparative Hydroecological and Zoological Investigations in Some Submerged Plant Stands of Lake Velence, (In German),
W77-01658 1004 2H

A Mathematical Model for Predicting River Temperatures-Application to the Green River Below Flaming Gorge Dam,
W77-01684 1004 4A

Lake Superior Bathythermograph Data,
W77-01912 1004 2H

Variations in Coastal Temperatures on the Southern and Central California Coast,
W77-01917 1004 2L

Thermal Modeling and its Relation to Canal Evaporation,
W77-02029 1004 2D

Water-Temperature Changes Downstream From a Major Reservoir at Cannonsville, N.Y.,
W77-02030 1004 4A

Predicted and Observed Temperature and Water-Quality Changes of Lakes and Reservoirs,
W77-02304 1005 2H

Seasonal Variations of Temperature and Nutrients in the Surface Waters of Lakes Ontario and Erie,
W77-02515 1005 5C

The Marine Biological Impact of the Honolulu Generating Station,
W77-02631 1006 5C

A Statement of Concerns and Suggested Ecological Research, Report Number 1 of the Lake Michigan Cooling Water Studies Panel.
W77-02636 1006 5C

Lethal and Preferred Temperatures of the Alewife (Alosa Pseudoharengus) in Lake Michigan,
W77-02710 1006 5C

Falls Lake Water-Quality Study; Hydraulic Laboratory Investigation,
W77-02941 1006 5B

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Viable Embryogenesis of the Winter Flounder Pseudopleuronectes Americanus from -1.8 deg to 15 deg C,
W77-03029 1006 5C

Relation of Water Temperature to Flexibacter Columnaris Infection in Steelhead Trout (Salmo Gairdneri) Coho (Oncorhynchus Kisutch) and Chinook (O. Tshawytscha) Salmon,
W77-03048 1006 5C

Effects of Water Temperature and Housing Conditions Upon the Aggressive Behavior of the Lobster Homarus Americanus,
W77-03050 1006 5C

Effect of Temperature and Salinity on Extension of Siphons by Mercenaria Mercenaria,
W77-03205 1007 5C

Allatoona Lake, Destratification Equipment Test, Appendix D, Effects of Artificial Destratification on Temperature and Dissolved Oxygen in Allatoona Reservoir.
W77-03310 1007 5G

Effect of Temperature on Seasonal Dynamics of The Number of Fecundity of Leptodora Kindtii (Focke) (Cladocera) in the Region of the Heated Waters of the Konakovo State Regional Electric Power Plant, (In Russian),
W77-03691 1008 5C

River and Cooling Water Temperature Fluctuations,
W77-03834 1008 5B

Preoperational and Operational Hydrothermal Field Data Acquisition and Analysis,
W77-03837 1008 5B

Spectral Analysis of the Long-Term Oceanographic Time Series at Ocean Weather Station 'P',
W77-03843 1008 2L

A Study in the Slope Water Region South of Halifax,
W77-03844 1008 2L

Bdelovibrio Bacteriovorus as a Factor of the Self-Purification of River Water, (In Russian),
W77-04095 1008 5G

Growth Requirements of Enteromorpha Compressa and Codium Fragile,
W77-04162 1009 5C

U.S. IFYGL Coastal Chain Program. Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies,
W77-04198 1009 2H

Deep-Sea Bacteria: Growth and Utilization of N-Hexadecane at In Situ Temperature and Pressure,
W77-04328 1009 5C

Bioassays on the Combined Effects of Chlorine, Heavy Metals, and Temperature on Fishes and Fish Food Organisms. Part I. Effects of Chlorine and Temperature on Juvenile Brook Trout (Salvelinus Fontinalis),
W77-04339 1009 5C

Burrowing Activity in Mercenaria Mercenaria (L.) and Spisula Solidissima (Dillwyn) as a Function of Temperature and Dissolved Oxygen,
W77-04345 1009 5C

Water Temperature Forecasting and Estimation Using Fourier Series and Communication Theory Techniques,
W77-04774 1010 2E

Heat Storage and Advection in Lake Erie,
W77-04879 1010 2H

Heat Balance in the Estuarine Region, (In Japanese),
W77-05291 1011 2L

Sea Surface Temperature Related to Rain in Ceara, Northeastern Brazil,
W77-05449 1011 2B

Final Report on an Exploratory Study of Interaction of Increased Temperature and Nitrogen Supersaturation of Adult Salmonids,
W77-05458 1011 5C

Relation of Temperature to the Incubation Periods of Eggs of Four Species of Trout,
W77-05476 1011 5C

Influence of Social Rank and Size on Thermoselection Behavior of Bluegill (Lepomis Macrochirus),
W77-05611 1012 5C

The Effect of Environmental Factors on the Absorption of Amino Acids by Isolated Gill Tissue of the Bivalve, Mya Arenaria (L.),
W77-05617 1012 5C

Evaluation of the Short-Term Toxicity of Nitrogenous Compounds to Channel Catfish, Ictalurus Punctatus,
W77-05623 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Seawater Adaptation in Atlantic Salmon (Salmo Salar L.) at Different Experimental Temperatures and Photoperiods,
W77-05626 1012 5C

Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary,
W77-05647 1012 5C

Water Temperatures of Kentucky,
W77-05743 1012 7C

Hydrological Parameters and Gas Bubble Disease in a Mariculture Pond and Flow Through Aquaria Receiving Heated Effluent,
W77-05765 1012 5C

Environmental Influences on the Survival of North Sea Cod,
W77-05826 1012 5C

Production of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in a Heated Model Stream,
W77-05856 1012 5C

Observations on Some Massive Fish Kills in Lake Eyre,
W77-05867 1012 5C

Oxygen Uptake by Rainbow Trout Blood, Salmo Gairdneri,
W77-05869 1012 5C

Studies on the Mortality of the Hard Clam Meretrix Lusoria (Roding) in Buan Farming Area, (In Japanese),
W77-05900 1012 5C

On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

Theoretical Consideration of the Cause of Gas-Bubble Disease in Fish in a Heated Effluent,
W77-06036 1012 5C

Responses of an Estuarine Population of the Blue Mussel Mytilus Edulis to Heated Water from a Steam Generating Plant.
W77-06254 1013 5C

The Reaction of the Hypothalamic-Hypophyseal Neurosecretory System of the Guppy (Lebistes Reticulatus) to an Alteration of Ambient Temperature,
W77-06275 1013 5C

A Diurnally Fluctuating Thermal System for Studying the Effect of Temperature on Aquatic Organisms,
W77-06291 1013 5C

On the Ocean Temperature Distribution in the Gulf of Alaska, 1974-1975,
W77-06320 1013 2L

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

Resistance of Adult Sockeye Salmon to Acute Thermal Shock,
W77-06413 1013 5C

Comparison of Stomach Contents and Conditions of Two Catfish Species Living at Ambient Temperatures and in a Heated Discharge,
W77-06418 1013 5A

Preferred Temperature of Fish: A New Method,
W77-06438 1013 5A

Laboratory Survival of Larvae of Palaemon elegans Rathke and Other Caridean Shrimps in Relation to Their Distribution and Ecology,
W77-06478 1013 5C

Combined Toxicity of Free Chlorine, Chloramine and Temperature to Stage I Larvae of the American Lobster Homarus Americanus,
W77-06482 1013 5C

Effect of Temperature on Channel Resistance,
W77-06517 1013 8B

Rotary-Flow Technique for Testing Fitness of Fish,
W77-06608 1014 5C

Temperature, Salinity and Light Penetration Structures: Controlled Ecosystem Pollution Experiment,
W77-06626 1014 5A

Mixing in Upper Layer of a Lake During Heating Cycle,
W77-06649 1014 2H

Lake Currents and Temperatures Near the Western Shore of Lake Michigan,
W77-06687 1014 2H

Fish Diseases and Parasites in Relation to the Environment,
W77-06744 1014 5C

The Influence of Effluent Heated Waters on the Bottom Fauna of Lakes in the Vicinity of Konin II. Changes in Time of Bottom Fauna, (In Polish),
W77-06750 1014 5C

The Influence of Heated Effluent Waters on the Water Chemism of Konin Lakes, (In Polish),
W77-06753 1014 5C

Occurrence and Growth of Dreissena Polymorpha Pall. in Lakes Included in a Cooling System, (In Polish),
W77-06754 1014 5C

Long-Term Changes of the Pelagic Primary Production in Heated Lakes, (In Polish),
W77-06755 1014 5C

The Influence of Heated Effluent Waters on the Thermal-Oxygen Relations and Water Transparency in the Konin Lakes Complex, (In Polish),
W77-06756 1014 5C

Nutrients, Chlorophyll, and Internal Tides in the St. Lawrence Estuary,
W77-06910 1014 5B

Dissolved Nitrogen, Dissolved Oxygen and Related Water Temperatures in the Columbia and Lower Snake Rivers, 1965-1969,
W77-06925 1014 5C

Measurement in a Marine Environment Using Low Cost Sensors of Temperature and Dissolved Oxygen,
W77-06960 1014 7B

The Formation of a Local Population of Bream Abramis Brama Orientalis, In the Heated Water Zone of Konakovo Power Station,
W77-07105 1015 5C

The Effect of Temperature and Thermal Distribution on Glycolysis in Two Rockfish Species (Sebastes),
W77-07110 1015 5C

Survival and Reproduction of Gammarus spp. (Amphipoda) Following Short-Term Exposure to Elevated Temperatures,
W77-07125 1015 5C

Effects of Passage Through Power Plant Cooling Systems on Estuarine Copepods,
W77-07134 1015 5C

Stochastic Properties of Daily Temperature in Rivers,
W77-07159 1015 5B

Laboratory Apparatus for Providing Diel Temperature Regimes for Aquatic Animals,
W77-07188 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

Evaporation of Wastewater from Mountain Cabins,
W77-07284 1015 5E

Effects of Combination of Temperature and Hydrostatic Pressure on Asterias rubens,
W77-07308 1015 5C

Experimental Study of the Nitrogen Excretion of Bass (Dicentrarchus labrax) during Growth. I. Effects of Temperature and Weight on the Excretion of Ammonia and Urea,
W77-07313 1015 5C

Modeling the Annual Thermal Evolution of Mid-Latitude Lakes,
W77-07462 1015 2H

Ground-Water Levels in Massachusetts, 1936-74,
W77-07485 1015 4B

Geochemistry of Thermal Waters in Long Valley, Mono County, California,
W77-07489 1015 2K

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Hydrochemical Observation of the Ground Water for Trout Culture Around Hino-Town, Tokyo, (In Japanese),
W77-07709 1016 5C

Snake River, 1973 Dissolved Gas Studies.
W77-07710 1016 5A

Dissolved Gas Supersaturation in the Salmon River, 1972-74,
W77-07719 1016 5A

Gas Disease in Fishes - A Review,
W77-07727 1016 5C

An Experimental and Theoretical Study of the Turbulent and Laminar Convection Generated Under a Horizontal Ice Sheet Floating on Warm Salty Water,
W77-07773 1016 2C

Temperature Regime in Lake Superior at Silver Bay, Minnesota,
W77-07970 1016 1A

Influence of Suspended Sediment on the Temperatures of Surface Waters of Reservoirs,
W77-07975 1016 5C

Low Frequency Turbulence and Vertical Temperature Microstructure in Lake Tahoe, California-Nevada,
W77-07984 1016 2H

The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

A Predictive Model for Transient Temperature Distributions in Unsteady Flows,
W77-08221 1017 5B

True-Temperature Determination of Geothermal Reservoirs,
W77-08318 1017 7B

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

A Study of Cooling Initially Uniform and Thermally Stratified Layers of Water,
W77-08444 1017 5G

Indiana Stream-Temperature Characteristics,
W77-08755 1018 7C

Toxicity of Intermittent Chlorination to Bluegill, Lepomis Macrochirus: Interaction with Temperature,
W77-08761 1018 5C

Thermal Acclimation, Upper Temperature Tolerance, and Preferred Temperature of Juvenile Yellowtail Snappers, Ocvurus chrvsurus (Bloch) (Pisces: Lutjanidae),
W77-08769 1018 5C

Laboratory Methods for Determining Temperature Preference,
W77-08770 1018 5C

Optimal Temperature for Growth of Juvenile Bluegills,
W77-08798 1018 5C

Effect of Hot Effluent Discharge from the Konakovo Power Plant on the Growth of Bream in Ivan'Kovo Reservoir,
W77-08803 1018 5C

The Effect of Warm Effluent from the Novorossiysk Thermal Power Plan on Zooplankton,
W77-08804 1018 5C

Coupled Dynamic Streamflow-Temperature Models,
W77-09014 1018 2E

Natural Stream Temperature Variations in a Catchment,
W77-09039 1018 5B

Temperature Effects on the Denitrification Products by Two Aquatic Pseudomonas Species,
W77-09607 1020 5C

Accomodation of Daphnia pulex to Altered pH Conditions as Measured by Feeding Rate,
W77-09678 1020 5C

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Seasonal Variation in Temperature, Salinity, and Density Over the Continental Shelf Off Oregon,
W77-09703 1020 2L

A Model of the Annual Cycle of Temperature in a Frontal Region of the Celtic Sea,
W77-09708 1020 2L

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

How a Heat Pump Improved Water Conditions at a Fish Hatchery,
W77-09791 1020 5C

Buoyant Surface Jets Discharged into a Strong Crossflow,
W77-09926 1020 5B

The Bottom Mixed Layer on the Continental Shelf,
W77-09948 1020 2L

Dickey-Lincoln School Lakes Hydrothermal Model Study; Hydraulic Laboratory Investigation,
W77-09987 1020 8B

The Sea Surface Temperature Deviation at Very Low Speeds; Is There a Limit,
W77-10120 1021 2L

Somali Current: Recent Measurements During the Southwest Monsoon,
W77-10128 1021 2L

Responses of Mosquitofish (Gambusia affinis) to Ash Effluent and Thermal Stress,
W77-10230 1021 5C

The effect of a No. 2 Fuel Oil and South Louisiana Crude Oil on the Behavior of the Soft Shell Clam, Mya Arenaria L.,
W77-10234 1021 5C

Temperature and Rate of Gastric Evacuation by Rainbow Trout, Salmo gairdneri,
W77-10237 1021 5C

The Effects of Temperature and Salinity on the Embryonic Development of Hydrobia ulvae (Pennant),
W77-10245 1021 5C

Toxicity of Distillery Wastes to Puntius Sophore (HAM.) and Mystus Vittatus (BLOCH) (Pisces, Cyprinidae, Bagridae) Part 3: Bioassay Studies and TLm Determination,
W77-10251 1021 5C

A Stochastic Model for the Simulation of the Temperature of a Watercourse,
W77-10300 1021 2A

Global Mass and Energy Requirements for Glacial Oscillations and Their Implications for Mean Ocean Temperature Oscillations,
W77-10327 1021 2B

Lake Ontario Atlas: Lake Temperatures,
W77-10508 1021 2H

Great Lakes Water Temperatures, 1966-1975,
W77-10510 1021 2H

Missouri River Temperature Effects in the Transition from Dunes to Plane Bed,
W77-10572 1021 2E

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

WATER TEMPERATURE

Ammonia Toxicity,
W77-10946 1022 5C

Water Resources Research Program - Nearshore Currents and Water Temperatures in Southwestern Lake Michigan, (June-December 1975),
W77-11131 1022 5A

Studies of the Effect of the Environment on the Heart Rate of Shellfishes.--1. Effect of Temperature, Salinity and Hypoxia on the Heart Rate of Scallops, (In Japanese),
W77-11265 1022 5C

A Study of the Fish Community in the Vicinity of a Thermal Discharge in the James River, Virginia,
W77-11269 1022 5C

Effect of Temperature on Maturation of a Cyprinid Loach, (In Japanese),
W77-11270 1022 5C

Some Effects on the Ecology of a Littoral Zone Receiving the Wastes on an Oil Refinery (Quelques Donnees Sur L'Ecologie D'une Zone Marine Littorale Recevant les Rejets D'une Raffinerie de Petrole),
W77-11282 1022 5C

The Papillomatosis of the European Eel (Anguilla Anguilla L.): Analysis of Seasonal Fluctuations in the Tumor Incidence,
W77-11324 1022 5C

Acute Temperature and Low Dissolved Oxygen Tolerances of Brachyuran Crab (Cancer Irroratus) Larvae,
W77-11332 1022 5C

Acute Toxicity of Oil Dispersants to Marine Fish Larvae,
W77-11333 1022 5C

The Red Tides of Malta,
W77-11334 1022 5C

Temperature Effects on Emitter Discharge Rates,
W77-11406 1022 3F

Insect Fauna of Some Virginia Thermal Streams,
W77-11476 1022 5C

Several Models for Water-Air Temperature Relationships of Some African Lakes,
W77-11577 1023 2H

A Time-Dependent Model of the Lake-Averaged, Vertical Temperature Distribution of Lakes,
W77-11799 1023 2H

A Three-Dimensional Model of Lake Ontario's Summer Circulation I. Comparison with Observations,
W77-11808 1023 2H

Circulation and Temperature Structure in Large Marine Enclosures,
W77-11816 1023 2L

Predicting the Rate of Warming of Rivers Below Hydroelectric Installations,
W77-11819 1023 5B

Temperature Preferences of Four Fish Species in an Electronic Thermoregulatory Shuttlebox,
W77-12013 1023 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Thermal Tolerance and Resistance of Northern Anchovy, Engraulis Mordax,
W77-12069 1023 5C

A Mathematical Model for Simulating the Temperature Structure of Stratified Reservoirs and Its Use in Reservoir Outlet Design,
W77-12114 1023 5B

Influence of Acclimation Temperature on Preferred Temperature in the Rainbow Trout Salmo Gairdneri,
W77-12193 1023 5C

Thermopreference Behavior of Bluegill (Lepomis macrochirus) Subjected to Restrictions in Available Temperature Range,
W77-12195 1023 5C

Thermal Effects of Power Plant Entrainment on Survival of Larval Fishes: A Laboratory Assessment,
W77-12210 1023 5C

A Note on the Lateral Mixing of Water Masses,
W77-12303 1024 2L

Hot Springs of the Central Sierra Nevada, California,
W77-12375 1024 2K

Temperature of Missouri Streams,
W77-12385 1024 7C

Equation of State of Pure Water and Sea Water,
W77-12570 1024 1A

Effects of Temperature and Ration Level on the Growth and Food Conversion Efficiency of Salmo Gairdneri, Richardson,
W77-12657 1024 5C

Some Effects of Temperature and Salinity on Laboratory-Reared Eggs and Larvae of Polydactylus Sexfilis (Pices: Polynemidae),
W77-12662 1024 5C

Studies on Lake Powell, USA: Environmental Factors Influencing Phytoplankton Success in a High Desert Warm Monomictic Lake,
W77-12833 1024 2H

Metabolic Rate and Utilization of Food Reserves in Some Marine Mussels Under Reduced Oxygen Saturation, Stoffwechselintensitat und Reservestoffabbau Einiger Mariner Muscheln Bei Herabgestzter Sauerstoffsattigung Des Mediums,
W77-12857 1024 5C

Toxicity Tests on the Combined Effects of Chlorine and Temperature on Rainbow (Salmo Gairdneri) and Brook (Salvelinus Fontinalis) Trout,
W77-12861 1024 5A

WATER TEMPERATURE CRITERIA

An Analysis of the Applicability of EPA's Draft Water-Temperature Criteria: A Site-Specific Case-History Evaluation,
W77-05588 1011 5C

WATER TEMPERATURES

Effects of Increased Water Temperature on Daphnia Pulex,
W77-07130 1015 5C

Preferred, Avoided, and Lethal Temperatures of Fish During Rising Temperature Conditions,
W77-07186 1015 5C

The Effect of Thermal Effluent on Phytoplankton Productivity in Lake Wabamun, Alberta,
W77-12864 1024 5C

WATER TEST KIT

Evaluation of the Ring Oven Technique for Water Monitoring,
W77-02148 1005 5A

WATER TRACING

An Evaluation of Some Fluorescent Dyes for Water Tracing,
W77-05950 1012 7B

WATER TRANSFER

Physical and Economic Effects on the Local Agricultural Economy of Water Transfer to Cities,
W77-02190 1005 6B

The Effects on Agriculture in Utah of Water Transfers to Oil Shale Development,
W77-02829 1006 6D

Water, Heat, and Salt Transports Through Nares Strait, Ellesmere Island,
W77-03978 1008 2L

Caribbean-Atlantic Water Exchange Through the Anegada-Jungfern Passage,
W77-05153 1011 2L

On The Effect of Barotropic Current Fluctuations on the Two-Layer Transport Capacity of a Constriction,
W77-05801 1012 2L

Oregon's Long-Range Requirements for Water. Protection of Areas of Origin, Appendix VII,
W77-07627 1016 6D

Appropriation of Water for Use Outside State.
W77-10492 1021 6E

The Central Arizona Project: 1918-1968,
W77-11999 1023 6B

WATER TREATMENT

Manganese and Iron Removal from Water by Adsorption on Diatomaceous Earth,
W77-00155 1001 5F

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

Utilization of Alumized Red Mud Solids for Phosphorus Removal,
W77-00587 1002 5D

Carbon Adsorption of Air and Water Pollutants,
W77-00591 1002 5F

Process for Reducing Dissolved Inorganic Orthophosphates to PPB Levels in Aqueous Systems,
W77-00685 1002 5G

Scale Inhibition and Compounds Therefore,
W77-00686 1002 5F

Portable Water Sterilization Device,
W77-00688 1002 5F

Artificial Recharge in the Grand Prairie, Arkansas,
W77-00734 1002 4B

Ultraviolet Water Purifier,
W77-01234 1003 5F

Transformation of Chemical Substances in Water Bodies and During Water Treatment as a Hygienic Problem, (In Russian),
W77-01552 1004 5F

Effectiveness of Methods of Improving Drinking Water Quality (Fluoridation, Desalination, Magnetic Treatment, Etc., (In Russian),
W77-01558 1004 5F

Treatment of Potable Water Under Field Conditions. Experience from the Second World War, (In Russian),
W77-01576 1004 5F

Effect of Abate (Diphos) on the General Sanitary Conditions of Water Bodies: II, (In Russian),
W77-01607 1004 5D

Report of Research and Research Needs on Water Quality Problems in the State of Hawaii,
W77-01698 1004 5G

Process for Purifying Tap Water,
W77-01726 1004 5F

Water Conditioning Device,
W77-01727 1004 5F

Method of Disinfecting Water,
W77-01734 1004 5F

Liquid Treating System,
W77-01739 1004 5F

Process for Sterilizing Water by the Combination of Chlorine and Another Halogen,
W77-01742 1004 5F

Ion Exchange Regeneration,
W77-01748 1004 5F

Double-Flow Magnetic Filter, Apparatus and Method,
W77-01758 1004 5F

Water Pollution Control Act of 1972, Costs and Capabilities, Water Treatment Systems,
W77-01963 1004 5D

Desalination to Play a Major Part in Middle East Water Supply.
W77-02175 1005 3A

Polyelectrolyte Persistence in a Municipal Water Supply,
W77-02221 1005 5F

The Barrier Role of Water Treatment Installations with Respect to Certain Heterocyclic Compounds, (In Russian),
W77-02240 1005 5F

Evaluation of Methods of Recovering Pathogenic Intestinal Microorganisms from Water, (In Russian),
W77-02244 1005 5F

Effectiveness of Continuous Chlorination of Well Water by Dosage Cartridges in Transcarpathia, (In Russian),
W77-02256 1005 5F

Need for Fluoridation of Drinking Water in Krasnodon, (In Russian),
W77-02338 1005 5F

Removal Benefits: It Can Be Too Costly,
W77-02436 1005 5D

Carpet and Rug Industry Case Study I: Water and Wastewater Treatment Plant Operation,
W77-02574 1005 5D

Study of the Effect of Desalted Drinking Water on the Health of the Population, (In Russian),
W77-03037 1006 5F

Decontamination of Water Contaminated with Polycyclic Aromatic Hydrocarbons (PAH). I. Action of Chlorine and Ozone on PAH Dissolved in Doubly Distilled and in De-Ionized Water,
W77-03369 1007 5D

'Give Flotation a Try' was Challenged.
W77-03439 1007 5F

Effect of Water Chlorination Upon Levels of Some Polynuclear Aromatic Hydrocarbons in Water,
W77-03459 1007 5F

Investigations on the Importance of the Organic Chloro-Compounds and their Adsorbability (Untersuchungen Zur Bedeutung der Organischen Chlorverbindungen und Ihrer Adsorbierbarkeit),
W77-03465 1007 5A

Innovation is an Old Idea--With A Big Future,
W77-03482 1007 5D

Flotation for Water and Wastewater Treatment,
W77-03576 1007 5D

Nature Preservation Activity RR Investigation: Part 6. A Modified Method of Measuring the Chemical Oxygen Demand Gives a High Analytical Capacity, (In Swedish),
W77-03589 1007 5A

Section 208 Program Review, (Environmental Protection Agency), (Draft).
W77-03686 1008 5D

Hygienic Assessment of the Destruction Products of Surfactants in Water Ozonization, (In Russian),
W77-03772 1008 5D

Water Treatment for Boiler Operating Pressures Above 1200 PSIG,
W77-03805 1008 3E

Reduction of Deposit Formation in Heat Exchangers (Snizhenie osadkoobrazovaniya v teploobmennoi apparature),
W77-03808 1008 8G

Inhibition of Scale on Saline Water Heat Exchange Surfaces with Iminodiacetic Acid Compounds,
W77-03872 1008 3A

Water Disinfection by Means of Chlorine: Killing of Aggregate Bacteria, (In German),
W77-04075 1008 5F

Water Ozonation in Fish Culture, (In German),
W77-04591 1009 5F

A Benefit/Cost Evaluation of Drinking Water Hygiene Programs,
W77-04639 1010 5F

Virus Elimination in Water and Wastewater,
W77-04648 1010 5D

Determination of Radium Removal Efficiencies in Iowa Water Supply Treatment Processes,
W77-04652 1010 5F

Water and Wastewater Treatment,
W77-04794 1010 5D

Mill Visit to Haindl Papier GMBH at Schongau (Besichtigung des Werkes Schongau der Haindl Papier GmbH).
W77-04830 1010 5D

Apparatus for Purifying Polluted Water,
W77-04966 1010 5D

Gravity Filtering Equipment,
W77-04967 1010 5F

Combining Metal Ion and Polymer Coagulants for Improved Water Treatment,
W77-05111 1011 5F

A Mathematical Model for Predicting Water Demand, Waste Water Disposal and Cost of Water and Waste Water Treatment Systems in Developing Countries,
W77-05328 1011 5D

The Direct Filtration Process and Its Application to Sydney's Water Supply,
W77-05527 1011 5F

Apparatus for Treating a Liquid,
W77-05666 1012 5F

Biologically Mediated Water Quality Deterioration in Distribution Systems,
W77-05928 1012 5F

Effect of pH on Some Water Treatment Unit Processes (Wplyw odczynu na niektore procesy oczyszczania wody),
W77-06189 1013 5D

Removal of Cr(+6) from Potable Water by Ion Exchange (Usuwanie zwiazkow Cr(+6) z wody pitnej za pomoca wymiany jonowej),
W77-06193 1013 5F

Water Treatment Plant Processes and Operations,
W77-06198 1013 5D

Effects of Waste Discharges on Water Quality of the South Platte River, Denver Metropolitan Area,
W77-06199 1013 5A

Means for Increasing the Flow Across a Reverse Osmosis Membrane using an Alternating Electric Field,
W77-06454 1013 3A

Water Pollution; Powers of State Water Pollution Control Board.
W77-06580 1013 6E

People and the Sound. Water Management.
W77-06594 1013 6B

The Removal of Organic Matter from Water Supplies by Ion Exchange,
W77-06760 1014 5F

Use of Cation Polyelectrolytes for Water Purification from Viruses, (In Russian),
W77-07108 1015 5F

Ozonation in a Better Perspective,
W77-07293 1015 5D

Proceedings of the Annual Conference, April 20-23, 1975, Toronto, Ontario,
W77-07329 1015 5D

Bacteriological Quality of Poultry-Farms' Water in Minas Gerais State, Brazil: 1973, (In Portugese),
W77-07594 1015 5F

Drainage--Who Pays, Responsibilities After the 1973 Water Act,
W77-07932 1016 5G

Composition and Method of Inhibiting Growth of Slime in Water,
W77-08027 1016 5G

Composition and Method for Flocculating Suspended Solids,
W77-08031 1016 5D

States Need Freedom to Innovate (Comment on PL 92-500).
W77-08119 1017 6E

Liquid Waste Treatment Apparatus,
W77-08263 1017 5D

Apparatus for Continuous Liquid-Liquid Extraction of Water with a Solvent,
W77-08264 1017 5F

Role of Polyelectrolytes in the Filtration of Colloidal Particles from Water and Wastewater,
W77-08339 1017 5D

Fluoride Analysis of Water-Treatment-Plant Sludges,
W77-08342 1017 5F

Application of Corrugated Sheet Sprayers for Water Purification (Die Anwendung von Wellbahnrieslern in der Wasseraufbereitung),
W77-08543 1017 5F

Influence of Initial Mixing on Direct Filtration,
W77-08809 1018 5F

Direct Filtration of Lake Michigan Water,
W77-08812 1018 5F

Photochemical Dechlorination of Water Supply for Fish Tanks with Commercial Water Sterilizers,
W77-08842 1018 5F

Philadelphia's Water System Automation Plan,
W77-08864 1018 5F

Method for Purifying Waste Waters which Contain Anionic-Type Organic Compounds,
W77-08891 1018 5D

Mathematical Modeling of Dual Water Supply Systems,
W77-09210 1019 6D

System Design of a Tubular Reverse Osmosis Plant,
W77-09319 1019 5F

A Guide to Aeration/Circulation Techniques for Lake Management,
W77-09603 1020 5G

Research and Development of an Electrochemical Biocide, Final Report,
W77-09771 1020 5D

Water Purifying Systems,
W77-09808 1020 5F

Water Treatment System with Prolonged Aeration,
W77-09818 1020 5G

Aerating Apparatus,
W77-09819 1020 5G

Synthetic Aggregates Made from Sewage Plant Sludge.
W77-09924 1020 8F

Calcium Carbonate Precipitation Kinetics, Part I, Pure System Kinetics,
W77-10087 1020 5F

Note on the Trace Metal Content of Membrane Filters,
W77-10383 1021 5F

Making Water Supply Nitrate Removal Practicable,
W77-10525 1021 5F

Simulation Aided Modeling of the Dynamic Behavior for some Elements of a Surface Water Treatment Plant,
W77-10815 1022 5F

Process and Apparatus for Recovering Clean Water from Aqueous Wastes,
W77-11011 1022 5D

Reactor for Purification of Water by Fluid Filtration,
W77-11016 1022 5F

Process for Scale Inhibition,
W77-11021 1022 5F

Solar Ponds as Heat Source for Low-Temperature Multi-Effect Distillation Plants,
W77-11119 1022 3A

New Development.
W77-11718 1023 5D

Electrochemical Chlorine Flux Monitor,
W77-11915 1023 5A

Removal of Trace Copper Ions from Water,
W77-11919 1023 5D

Purification of Natural Water in Clarifiers with Suspended Filter (Ochistka prirodnoi vody v osvetlitelyakh so vzveshennym fil'trom),
W77-12358 1024 5F

Dual Water Systems -- Design,
W77-12402 1024 5D

Wanted: Better Ways to Clean Water,
W77-12452 1024 5D

Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

Containerized Water Refiner Exchange System,
W77-12685 1024 5F

Water Filter,
W77-12689 1024 5F

Water Purifier,
W77-12690 1024 5F

Membrane Filter System,
W77-12695 1024 5F

Membrane Cartridge with Improved Central Collection Tube,
W77-12696 1024 5F

Elimination of Enteroviruses During Treatment of Drinking Water by Coagulation - Flocculation - Filtration, (In French),
W77-12944 1024 5F

WATER TREATMENT (APPLIED)

Wastewater Management Program, Jamaica Bay, New York, Volume I: Summary Report,
W77-10533 1021 5D

WATER TYPES

The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

Hydrochemistry and Ground-Water Mixing in Part of the Lincolnshire Limestone Aquifer, England,
W77-01627 1004 2F

WATER USE

Northern Great Plains Resources Program: Water Quality Subgroup Report,
W77-12588 1024 5C

WATER USE MODELS

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

WATER USERS

Salt River Valley Water Users' Association V Giglio (Duty of Reasonable Care in Disposing of Floodwaters Entering Canal System).
W77-00998 1002 6E

Utah Lake Diking Project.
W77-01010 1002 6E

Rights to Water.
W77-03494 1007 6E

Validity, Construction, and Application of S 5 of Reclamation Law of 1902 (43 USCS S 431),
W77-03712 1008 6E

Water Use in Mississippi, 1975,
W77-04972 1010 7C

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

The National Conference on Water.
W77-08131 1017 6E

Final Report of Committee VII (Final Recommendations of the International Conference on Water Law and Administration),
W77-08187 1017 6E

Water-Use Leasing Act.
W77-09010 1018 6E

Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

Estimating Seepage Losses from Canal Systems,
W77-12608 1024 4A

WATER UTILIZATION

Mining and Manufacturing Corporations.
W77-01118 1003 6E

Florida's System for Regulation of Water Use--A Modern Instrument for Sound Water Resource Management,
W77-01186 1003 6E

Soil Moisture Use by Velvet Mesquite (Prosopis Juliflora),
W77-01283 1003 2G

The Effects of Pressure on Domestic Water Supply Including Observations on the Effect of Limited Garden-Watering Restrictions During a Period of High Demand,
W77-01360 1003 3D

R26m Dam Plan for the Lowveld.
W77-01478 1003 8A

Umgeni River Catchment Analysis,
W77-01488 1003 4D

Forecasts and the Role of Alternative Futures,
W77-01890 1004 6B

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Water Requirements for Solar Energy,
W77-02122 1005 3E

Economic Models of Waster Use, (Rann Utilization Experience, Case Study Number 4),
W77-02640 1006 6C

Seasonal Water Use of Irrigated Pasture Grasses Under Permanently-Set Irrigation as Related to Climatic Factors,
W77-02834 1006 3F

The Location of Industrial Water Users and Air Pollution: An Overlooked Relationship,
W77-02877 1006 5B

Water Quantity Requirements for Public Supplies and Other Uses,
W77-02969 1006 6D

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

Ground-Water Levels in New Mexico, 1975,
W77-03330 1007 7C

Water Usage and Wastewater Characterization at a Crops of Engineers Recreation Area,
W77-03362 1007 5A

Suspension and Restoration of Right to Appropriate.
W77-03508 1007 6E

Urban Water Use in California.
W77-03549 1007 6B

Effect of Water Deficit on Carbon Dioxide Exchange and Leaf Elongation Rate of Panicum Maximum Var. Trichoglume,
W77-03630 1008 2I

General State Powers over Water.
W77-03703 1008 6E

Validity, Construction, and Application of S 5 of Reclamation Law of 1902 (43 USCS S 431),
W77-03712 1008 6E

Ground-Water Resources and Geology of Jefferson County, Wisconsin,
W77-03889 1008 4B

National Economic Models of Industrial Water use and Waste Treatment,
W77-03928 1008 5D

Optimization of Crop Irrigation Strategy Under a Stochastic Weather Regime: A Simulation Study,
W77-03941 1008 3F

Public Information on Water Resources in the Lake Erie Tributary Basin of Northern Ohio: Content and Exposure,
W77-04101 1009 6B

New Mexico Water Resources, Assessment for Planning Purposes.
W77-04112 1009 6B

Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Studies on the Rates of Water Use of Dwarf Wheat and Their Relationship with Potential Values Based on the Climatological Approach,
W77-04314 1009 3F

Changes in Forest Structures in the Emmental Expressed in the Tree Count and Distribution and the Possible Long-Term Deterioration of Water Utilization, (In German),
W77-04778 1010 4A

Summary, Phase 1 - Arizona State Water Plan: Inventory of Resource and Uses.
W77-04782 1010 6B

Water Deeds: A Proposed Solution to the Water Valuation Problem,
W77-04792 1010 6D

Waterwheel Driven Electrical Generator,
W77-04969 1010 8C

Water Use in Mississippi, 1975,
W77-04972 1010 7C

Optimal Use of Water and Related Resources for Diversified Farming on Oahu, Hawaii: A Hypothetical Study,
W77-05105 1011 3F

Water Use and Productivity of Wheat Under Five Irrigation Treatments,
W77-05221 1011 3F

Impacts of State Land Use and Environmental Regulations,
W77-05256 1011 6G

Ground Water in the Harrisburg-Halsey Area, Southern Willamette Valley, Oregon,
W77-05757 1012 4B

Use of Water in Arkansas, 1975,
W77-05761 1012 6D

Local Schemes of Complex Utilization and Protection of Water Resources of River and Sea Basins in the Northern Caucasus, (In Russian),
W77-05811 1012 5B

Water Use by Irrigated Cotton in the Sudan IV. Water Use Potential Evaporation and Yield,
W77-05982 1012 3F

Miscellaneous Provisions on Water Rights, Uses and Protection,
W77-06571 1013 6E

Land Forming Systems to Improve Water Use Efficiency,
W77-06761 1014 3F

Reduced Water Demand--Result of Swedish Anti-Pollution Program,
W77-07215 1015 5D

Appropriation of Water--Permits, Certificates and Licenses--Survey.
W77-07265 1015 6E

Oregon's Long-Range Requirements for Water. Selected Major Water Using Industries and Population Projections, Appendix III.
W77-07624 1016 6D

An Analysis of Agricultural Water Requirements in the Tar-Neuse River Basin of North Carolina,
W77-08106 1017 3F

The National Conference on Water.
W77-08131 1017 6E

Board and Division of Water Resources,
W77-08156 1017 6E

Agricultural Water Demand in Wake County, North Carolina,
W77-08297 1017 6D

Water for Food - Or for More Important Purposes. (Reallocation of Irrigation Water to Cities and Industries),
W77-08377 1017 6E

Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975,
W77-08469 1017 4B

Digital-Model Analysis of the Effects of Water-Use Alternatives on Spring Discharges, Gooding and Jerome Counties, Idaho,
W77-08484 1017 4B

Annual Summary of Ground-Water Conditions in Arizona, Spring 1975 to Spring 1976,
W77-08732 1018 7C

Water-Level Changes in Northwestern Kansas, 1950-76,
W77-08742 1018 4B

Water for Industrial and Agricultural Development in Attala, Holmes, Humphreys, Issaquena, Sharkey, and Yazoo Counties, Mississippi,
W77-08748 1018 4B

Biscayne Bay Symposium II,
W77-08961 1018 5G

Water Rights Adjudication Act,
W77-08994 1018 6E

Economic Development and Environmental Quality in the Northeastern Plateau Region of California,
W77-09055 1018 6B

Ground-Water Resources and Geology of Walworth County, Wisconsin,
W77-09081 1018 2F

An Environmental Residual Allocation Model,
W77-09179 1019 5B

Modeling Urban Runoff from a Planned Community,
W77-09190 1019 5B

Manufacturing Water Use Survey, 1972 - A Summary of Results,
W77-09219 1019 3E

Water Resource and Land Use Problems in Western Australia,
W77-09296 1019 4C

Industrial Water Use,
W77-09449 1019 6D

Water-Resources Appraisal of the Carson River Basin, Western Nevada,
W77-09992 1020 4A

Forecasting: The Challenge to the Aquatic Sciences,
W77-10190 1021 6B

Influence of Metering, Pricing Policies and Incentives on Water Use Efficiency,
W77-10374 1021 6C

Efficiency in Industrial, Municipal and Domestic Water Use,
W77-10375 1021 6D

Kansas Task Force to Develop Water Use Program to Resolve Serious Problems,
W77-10522 1021 4B

Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

Desalting Saline Ground Water for Agriculture,
W77-11085 1022 3A

The Arizona Groundwater Controversy at Mid-Century,
W77-11102 1022 6E

Water Conservation for Domestic Users, with Special Reference to Warm Desert Climates.
W77-11636 1023 3D

Regional Water Management with Full Consumptive Use,
W77-11866 1023 6B

Evapotranspiration and Water Use Efficiency by Soybean Lines Differing in Growth Habit,
W77-11965 1023 3F

Conservation in Kano,
W77-11993 1023 4B

Hydrologic Evaluation of the Upper Duchesne River Valley, Northern Uinta Basin Area, Utah,
W77-12158 1023 4B

Research on Efficient Water Use,
W77-12282 1024 2G

Water Arid Agricultures: Salinity and Waterlogging in the Near-East Region,
W77-12291 1024 3C

Fresh-Water Resources in the Southeastern Part of the Tularosa Basin,
W77-12392 1024 4A

Optimization of Water Use for Irrigation,
W77-12617 1024 3F

WATER UTILIZZATION

Inventory of Colorado's Front Range Mountain Reservoirs,
W77-08107 1017 6B

WATER VAPOR

Wet Cooling Tower with Plume Eliminator,
W77-01193 1003 5G

Comments on the Storage of Water Vapour in the Atmosphere over South Africa,
W77-01365 1003 2B

Precipitable Water Vapor in Atmospheres Characterized by Temperature Inversions,
W77-09330 1019 2B

The Divergence of the Water Vapour Flux Over Southern Africa,
W77-11579 1023 2D

Evaluation of Theoretically Predicted Thermal Conductivities of Soils Under Field and Laboratory Conditions,
W77-11611 1023 2G

Heat and Vapor Movement During Infiltration into Dry Soils,
W77-11818 1023 2G

WATER VAPOUR

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

WATER WAVE MODELS

Landslide Generated Water Wave Model,
W77-03318 1007 8B

WATER WAVES

Wave Induced Oscillations in Harbors with Connected Basins,
W77-10884 1022 8B

WATER WELL

Free Pump Tests Save Millions of Dollars,
W77-04118 1009 8G

WATER WELL CONSTRUCTION

Evaluating Well Construction,
W77-04131 1009 8B

Well Construction and Water Quality,
W77-04132 1009 5G

WATER WELL CONSTRUCTION STANDARDS

Manual of Water Well Construction Practices.
W77-01777 1004 8B

WATER WELL FIELD

Hydraulics and Economics of Well Field Layout.
W77-06863 1014 8B

WATER WELL REHABILITATION

Well Construction and Water Quality,
W77-04132 1009 5G

WATER WELLS

Effects of Near-Well Permeability Variation on Well Performance,
W77-00437 1001 4B

Drilling Mud Invasion of Unconsolidated Aquifer Materials,
W77-00438 1001 8B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Method for Lowering Ground Water,
W77-01196 1003 8B

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

40 GPM. It Works If You Have Enough Wells,
W77-01762 1004 4B

Nearly 50,000 Nebraska Wells Causing Some Concern.
W77-01765 1004 4B

Drawdown Due to Pumping in an Anisotropic Aquifer,
W77-01769 1004 4B

Manual of Water Well Construction Practices.
W77-01777 1004 8B

A Drawdown Prediction Model Based on Regression Analysis,
W77-02015 1004 4B

Investigation of Two-Regime Well Flow,
W77-02142 1005 4B

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-02161 1005 8B

Effectiveness of Continuous Chlorination of Well Water by Dosage Cartridges in Transcarpathia, (In Russian),
W77-02256 1005 5F

Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

Records of Wells and Water Quality for the Garber-Wellington Aquifer, Northern Oklahoma and Southern Logan Counties, Oklahoma,
W77-02974 1006 4B

Maps Showing Ground-Water Conditions in the San Simon Area, Cochise and Graham Counties, Arizona, and in Hidalgo County, New Mexico--1975,
W77-03327 1007 7C

Maps Showing Ground-Water Conditions in the San Bernardino Valley Area Cochise County, Arizona--1975,
W77-03328 1007 7C

Chemical Composition Data and Calculated Aquifer Temperature for Selected Wells and Springs of Honey Lake Valley, California.
W77-03342 1007 2K

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

Significance of Nitrates in Drinking Water, (In Russian),
W77-03541 1007 5B

The Dream Spudder,
W77-04116 1009 8B

Energy Costs Dictate Efficient Well Design,
W77-04119 1009 8B

Short, Large Diameter Screens Prove Effective,
W77-04120 1009 8G

The Bacteriological Examination of Groundwater Sources in Betul District, Madhya Pradesh, India,
W77-04123 1009 5B

Ground Water Resources of the Bedrock Aquifers of the Denver Basin Colorado,
W77-04126 1009 2F

Evaluating Well Construction,
W77-04131 1009 8B

Well Construction and Water Quality,
W77-04132 1009 5G

Summary of Selected Court Case in Water Conservation and Groundwater Litigation,
W77-04139 1009 6E

Hydrogeologic Study, New Horizons Subdivision, Carroll County, Maryland,
W77-04140 1009 4B

Sampling: One Key to Drilling Success,
W77-04279 1009 8G

Don't Let the Bugs Get the Best of You,
W77-04281 1009 8G

A Light in the Water.
W77-04282 1009 8G

A Study of Tubewell Installations in Betul District Madhya Pradesh, India,
W77-04284 1009 8B

Bailing,
W77-04288 1009 8C

Improving the Sanitary Protection of Ground Water in Severely Folded, Fractured, and Creviced Limestone,
W77-04890 1010 5B

Consideration of Total Energy Loss in Theory of Flow to Wells,
W77-05368 1011 2F

Water-Resources Data Collected in the Devils Hole Area, Ash Meadows, Nevada, 1975-76,
W77-05745 1012 7C

Salt Water Pumping Controls Sea Water Intrusion,
W77-05972 1012 2L

Water Quality Variations for Pumping Wells,
W77-06310 1013 5B

Tributary Ground Water and Change-of-Place-of-Use Rules in Designated Ground Water Basins in Colorado.
W77-06545 1013 4B

Pinellas County V. Lake Padgett Pines (Water Resources Act and Effect of Water Withdrawal Project),
W77-06574 1013 6E

New Design Gives Denver District Iron-Free Well,
W77-06868 1014 8A

Consumptive Use of Ground Water,
W77-07257 1015 6E

A Study of Environment Sanitation on the Wells in Jungneung-Dong Area, Seoul, (In Korean),
W77-07475 1015 5B

Water-Level Records for the Northern High Plains of Colorado, 1973-77,
W77-07486 1015 4B

Manuel Technique Du Village, (Village Technology Handbook), (Vols. 1 and 2).
W77-07628 1016 3F

E.L.C. Water Development Project, Betul (M.P.) India: Fifth Annual Report, 1975-1976,
W77-07696 1016 8B

Water Sampling from Unpumped Wells with Static Water Levels Deeper than 10 Metres,
W77-07787 1016 5A

Selected Water-Level Records for Western Oklahoma, 1950-1975,
W77-08163 1017 7C

Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

Water-Level Decline and Pumpage in Deep Wells in the Chicago Region, 1971-1975,
W77-08302 1017 2F

100 Mesh Sand Improves Hydraulic Frac Results.
W77-08312 1017 4B

Groundwater Resources of Guam: Occurrence and Development,
W77-08448 1017 4B

Maps Showing Ground-Water COnditions in the Puerco-Zuni Area, Apache and Navajo Counties, Arizona--1975,
W77-08471 1017 7C

Land Subsidence,
W77-08653 1018 4B

Self-Pressurizing Seals Keep Submersible Motors Dry,
W77-08672 1018 8C

Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

Digital Model Studies of Steady-State Radial Flow to Partially Penetrating Wells in Alluvial Plains,
W77-08838 1018 2F

Water-Level Records for the San Luis Valley of Colorado, 1973-77,
W77-09088 1018 7C

Non-Penetrating Well in a Semi-Infinite Medium with Non-Linear Flow,
W77-09114 1019 2F

Determination of Dug Well Debit Under Conditions of Desert Pasture Lands, (In Russian),
W77-09310 1019 4B

Selected Water-Level Records for Western Oklahoma, 1975-1976,
W77-09998 1020 7C

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

Recommendations for the Routine Recording of Borehole Data for Hydrogeological Purposes,
W77-10224 1021 4B

Hydraulic Design Data for Water Wells in Unconsolidated Sediments,
W77-10377 1021 8B

Well Maintenance and Rehabilitation,
W77-10516 1021 8B

Protecting Ground Water from Domestic Wastewater Effluent,
W77-10520 1021 5G

New Instrument Expands Water Well Technology,
W77-10521 1021 8G

Pumping Tests Provide Useful Data, Part II,
W77-10530 1021 8B

Construction of a Large Diameter Well,
W77-10531 1021 8B

Ground-Water Conditions in Utah, Spring of 1977,
W77-10864 1022 4B

Salt-Water Encroachment in Aquifers Near the Houston Ship Channel, Texas,
W77-10872 1022 5B

Artesian Wells.
W77-11191 1022 6E

Potentiometric Surface of the Floridan Aquifer in the Northwest Florida Water Management District, May 1976,
W77-11377 1022 7C

Water-Level Records for the Lower Arkansas River Valley of Colorado, 1973-77,
W77-12370 1024 7C

Water-Level Records for Adams, Larimer, Logan, Morgan, Sedgwick, Washington, and Weld Counties, Colorado, 1973-77,
W77-12373 1024 7C

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

Buried Well Seals: A New Method of Reconstruction,
W77-12665 1024 5G

Well Redevelopment: Part 1,
W77-12673 1024 8B

Composite Well Systems,
W77-12678 1024 8B

Pumping Tests Provide Useful Data: Part 3,
W77-12683 1024 8G

WATER WHEELS

Waterwheel Driven Electrical Generator,
W77-04969 1010 8C

WATER WILLOW

Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

WATER WORKS

Coping with Increasing Costs,
W77-00172 1001 3D

Protection of Water Supply.
W77-03719 1008 6E

Condemnation of Land and Water Rights.
W77-03726 1008 6E

WATER WORKS

Water Rights.
W77-06074 1012 6E

Sale of Water Rights,
W77-08140 1017 6E

WATER YIELD

Effects of Near-Well Permeability Variation on Well Performance,
W77-00437 1001 4B

Drilling Mud Invasion of Unconsolidated Aquifer Materials,
W77-00438 1001 8B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1975,
W77-00479 1001 4B

A Suburban Model of Rational Ground Water Utilization: A Plan for Nassau County,
W77-01182 1003 4B

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W77-01424 1003 2D

Estimating Water Yield Differences Between Hardwood and Pine Forests: An Application of Net Precipitation Data,
W77-01425 1003 3B

Results of the Multiple Catchment Experiments at the Jonkershoek Research Station, South Africa. 2. Influence of Protection of Fynbos on Stream Discharge in Langrivier,
W77-01474 1003 4D

The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

An Appraisal of Ground Water for Irrigation in the Appleton Area, West-Central Minnesota,
W77-02982 1006 4B

Major Aquifers in Hand and Hyde Counties, South Dakota,
W77-02992 1006 4B

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

Buried Aquifers in the Brooten-Belgrade and Lake Emily Areas, West-Central Minnesota--Factors Related to Developing Water for Irrigation,
W77-03335 1007 4B

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Ground-Water Resources of Greeley and Wichita Counties, Western Kansas,
W77-03347 1007 4B

Preliminary Digital Model of Ground-Water Flow in the Madison Group, Poweder River Basin and Adjacent areas, Wyoming, Montana, South Dakota, North Dakota, and Nebraska,
W77-03882 1008 2F

Map Showing Ground-Water Conditions in the Aravaipa Valley Area, Graham and Pinal Counties, Arizona--1975,
W77-04236 1009 7C

Reservoir Yield Using TPM Method,
W77-04505 1009 3B

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Ground-Water Data for 1974-75 in Joshua Tree National Monument, California,
W77-08164 1017 7C

Ground Water in the San Juan Metropolitan Area, Puerto Rico,
W77-08173 1017 4B

Ground Water Budget of the Mountainous Regions of Hungary, (In Hungarian),
W77-08663 1018 2F

Clearcutting in Pennsylvania,
W77-08712 1018 4C

Ground-Water Resources of the Lexington, Kentucky, Area,
W77-09996 1020 4B

Geohydrology of Muscatine Island, Muscatine County, Iowa,
W77-10012 1020 4B

A Model of the Melting Process of the Snow Cover as a Part of Catchment Models,
W77-10432 1021 2C

Ground-Water Resources of Benson and Pierce Counties, North Dakota,
W77-10876 1022 4B

Flowing Wells in Michigan 1974,
W77-11375 1022 4B

Frequency Domain Analysis of Hydrological Systems with Monthly Data,
W77-11386 1022 2A

Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

Hydrologic Evaluation of the Upper Duchesne River Valley, Northern Uinta Basin Area, Utah,
W77-12158 1023 4B

Potential Water Yield Response Following Clearcut Harvesting on North and South Slopes in Northern Idaho,
W77-12366 1024 4C

Availability of Water in the Floridan Aquifer in Southern Duval and Northern Clay and St. Johns Counties, Florida,
W77-12374 1024 4B

Ground-Water Discharge from the Edwards and Associated Limestones, San Antonio Area, Texas, 1976,
W77-12376 1024 2F

Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

WATER YIELD CHANGES

Water Yield Changes After the Urbanization of the Canon's Brook Catchment, Harlow, England,
W77-11600 1023 4C

WATER YIELD IMPROVEMENT

Drip Irrigation: Israel Teaches California,
W77-01080 1003 3F

Potential for Water Yield Improvement in Arizona Through Riparian Vegetation Management,
W77-01282 1003 3B

Water Yields Resulting from Treatments on the Workman Creek Experimental Watersheds in Central Arizona,
W77-01660 1004 4C

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Watershed Management's Effects on many Resources,
W77-02109 1005 3B

Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

Chaparral Management: Its Potential--Its Problems--Its Future,
W77-02111 1005 3B

Water Loss from Snowdrifts Under Oasis Conditions,
W77-04174 1009 3B

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

Using Representative Watersheds to Manage Forest and Range Lands for Improved Water Yield,
W77-05120 1011 4D

Harvesting Surface Runoff and Ephemeral Streamflow in Arid Zones,
W77-05946 1012 3B

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Place and Role of Plant Cover in Optimization of the Donbas Natural Environment, (In Ukranian),
W77-06858 1014 4C

Watershed Management and Water Quality,
W77-07951 1016 5G

100 Mesh Sand Improves Hydraulic Frac Results.
W77-08312 1017 4B

An Assessment of Snowpack Depletion-Surface Runoff Relationships on Forested Watersheds,
W77-08933 1018 3B

Investigation of the APAC Water Seepage Barrier,
W77-09140 1019 3B

Construction of a Large Diameter Well,
W77-10531 1021 8B

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

WATER YIELDS

Hydrologic Maps and Data in the Mimbres Basin, New Mexico,
W77-10858 1022 7C

WATER ZONING

Water Zoning - Tool for Ground-Water Basin Managers,
W77-00552 1002 6F

WATERBORNE PETROLEUM OILS

Thin-Layer Chromatographic Technique for Identification of Waterborne Petroleum Oils,
W77-01631 1004 5A

WATERFLEAS

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

WATERFOWL

Pilot Investigation of the Importance of Various Wetland Types to Duck Production,
W77-00145 1001 2H

Possibilities for the Systematic Organization of Aquatic Bird Habitats, (In German),
W77-01950 1004 5C

Water Fowl Refuge Effect on Water Quality: I. Bacterial Populations,
W77-02513 1005 5C

Waterfowl and Acid Precipitation in Norway, (In Danish),
W77-03841 1008 5C

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

Organochlorine Insecticide Residues in Ducklings and Their Dilution by Growth,
W77-05618 1012 5C

Behavior of Mallard Ducklings from Parents Fed 3 PPM DDE,
W77-06284 1013 5C

Pollutant-Associated Embryonic Mortality of Great Lakes Herring Gulls,
W77-06286 1013 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

Total Mercury Residues in Livers and Eggs of Oldsquaws,
W77-06471 1013 5C

Methylmercury: Second-Generation Reproductive and Behavioral Effects on Mallard Ducks,
W77-06495 1013 5C

Birds of Coastal Habitat on the South Shore of Seward Peninsula, Alaska,
W77-06813 1014 6G

Avian Community Ecology at Two Sites on Espenberg Peninsula in Kotzebue Sound, Alaska. A Composite Study of: (1) Habitat Utilization and Breeding Ecology of Waterbirds, (2) Habitat Utilization and Breeding Ecology of Shorebirds and Nonwaterbird Species, and (3) Habitat Utilization, Breeding Ecology, and Feeding Ecology of Predators of Birds,
W77-06820 1014 6G

The Ecological Significance of Antibiotic Substances Excreted by Algae in Waters, (In Polish),
W77-08463 1017 5C

Histopathologic Alterations in Shell Gland Accompanying DDT-Induced Thinning of Eggshell,
W77-09673 1020 5C

Contamination of the Bird Life of the Camargue by Organochlorine Residues (Contamination De L'Avifaune Camarguaise Par Des Residus Organochlores), (In French),
W77-11277 1022 5C

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

WATERLOGGING

Waterlogging in an Alluvial Aquifer Near Lake Minnequa, Pueblo, Colorado,
W77-02983 1006 2F

WATERPROOF MEMBRANES

Asphalt-Rubber Mixtures for Seepage Control,
W77-08195 1017 4A

WATERSHED (BASINS)

Simplified Techniques for Determining Water Conducting and Water Storage Properties of Soils,
W77-05853 1012 2G

Simulation of a Series of Daily Areal Mean Rainfalls for a Basin Using Rainfall Observations at a Reference Station Located Outside the Basin,
W77-07356 1015 2B

Rainfall-Discharge Transformation Models May be Divided Into Two Catagories (Les Modeles Deterministes De Transformation Des Precipitations En Debit),
W77-12090 1023 2A

WATERSHED DISTRICTS

Minnesota Water Resources Board and Watershed Districts.
W77-02428 1005 6E

WATERSHED MANAGEMENT

An Overview of the Impact Study of the McClellan-Kerr Multiple Purpose Arkansas River System,
W77-00101 1001 6G

Municipal Watershed Management Survey,
W77-00608 1002 5B

(Watershed Management and Decision Making in Relation to Computer Hardware, Communications and Software Design),
W77-00619 1002 7C

A Regional Planning Approach to the Floodplain Management Problem,
W77-00704 1002 6F

Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

Water Use on Rangelands,
W77-00846 1002 3B

Watershed Improvement Districts.
W77-01000 1002 6E

Guidelines for Lake Watershed Management Planning.
W77-01291 1003 5G

Coffee Pond Watershed Management Plan.
W77-01292 1003 5G

Forest Lake Watershed Management Plan.
W77-01293 1003 5G

Afforestation, Catchment Protection and Water Supply Demands,
W77-01371 1003 4D

Allocation of Water to Forestry and Other Users in the Catchment of the Eerste River,
W77-01385 1003 4D

Catchment Research at Zachariashoek,
W77-01386 1003 4D

Municipal Watershed Management Survey,
W77-01422 1003 4D

Clearing an Alligator Juniper Watershed with Saws and Chemicals: A Cost Analysis,
W77-01430 1003 4D

Streamflow Nitrogen Loss Following Forest Erosion Control Fertilization,
W77-01431 1003 4D

Seventeen-Year Sediment Production from a Semiarid Watershed in the Southwest,
W77-01433 1003 4D

Maximum Peak Flow for Selected Return Periods for Watersheds West of the Continental Divide in Idaho and Montana,
W77-01435 1003 4D

Timber and Water,
W77-01480 1003 4C

Umgeni River Catchment Analysis,
W77-01488 1003 4D

Water Yields Resulting from Treatments on the Workman Creek Experimental Watersheds in Central Arizona,
W77-01660 1004 4C

A Stochastic Sediment Yield Model for Bayesian Decision Analysis Applied to Multipurpose Reservoir Design,
W77-01892 1004 4D

The Arizona Water Plan: A Status Report,
W77-02104 1005 4D

Managing the Southwestern National Forests for Water and Related Resources,
W77-02107 1005 4A

Arizona's Frozen Assets: Volumetric Forecasts from Snowpack,
W77-02108 1005 2C

Watershed Management's Effects on many Resources,
W77-02109 1005 3B

Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

Effects of Water Management on Fresh-Water Discharge to Biscayne Bay,
W77-02314 1005 4A

Water Resources Information Needs for the Suwannee River Water Management District,
W77-02318 1005 4A

Minnesota Water Resources Board and Watershed Districts.
W77-02428 1005 6E

Hydrologic Inventory of the San Rafael Study Unit.
W77-03552 1007 4A

A Comparison of Modeling and Statistical Evaluation of Hydrologic Change,
W77-03800 1008 4D

Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

The Lake Tahoe Study...as Requested by the 92nd Congress in Section 114 of the Federal Water Pollution Control Act of 1972.
W77-04168 1009 5G

Terrestrial Contribution of N to Stream Water in Managed and Undisturbed Forested Watersheds,
W77-04178 1009 5B

Hydrologic Modeling to Determine the Effect of Small Earthern Reservoirs on Ephemeral Streamflow,
W77-04320 1009 2E

Changes in the Water Balance with Land Modification in Southern Australia,
W77-04779 1010 4C

Land Surface Modifications and Their Effects on Range and Forest Watersheds,
W77-04780 1010 4D

Tables of Geometry for Low-Standard Roads for Watershed Management Considerations, Slope Staking, and End Areas,
W77-04831 1010 4D

Sediment-Control Methods in Urban Development: Some Examples and Implications,
W77-04982 1010 4D

Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

Upper West Fork River Watershed v Corps of Engineers (Construing an Environmental Impact Statement for a Proposed Dam Project).
W77-05073 1010 6E

Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

Using Representative Watersheds to Manage Forest and Range Lands for Improved Water Yield,
W77-05120 1011 4D

Streamflow Increases After Removing Woodland-Riparian Vegetation from a Southern California Watershed,
W77-05124 1011 4C

Hydrology and Water Resources of the Charles River Basin, Massachusetts,
W77-05280 1011 7C

Special Watershed Projects.
W77-05292 1011 4D

Inland Lakes Water Quality and Watershed Planning: Remote Sensing Technology Applications,
W77-05297 1011 6B

Standards Related to Water-Oriented and Water-Enhanced Recreation in Watersheds - Phase I,
W77-05484 1011 6B

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W77-05733 1012 3C

Predicted Effects of a Proposed Water-Resource Management Plan in theLower San Luis Rey River Valley, California, Using Digital Ground-Water Flow Models,
W77-05755 1012 4B

Aquatic Habitat Inventory in the Hot Desert Eis Area, Utah,
W77-05855 1012 6G

Grazing Systems and Watershed Management: A Look at the Record,
W77-05936 1012 4D

Management and Regeneration of Degraded Catchments and Eroded Pastoral Lands with Particular Reference to Range Reseeding,
W77-05947 1012 4D

Restoration and Protection of Degraded Slopes,
W77-05948 1012 4D

Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil,
W77-05988 1012 2G

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

Proposals for Improving the Management of International River Basins,
W77-06051 1012 6E

Runoff and Erosion,
W77-06236 1013 4D

Vegetation Management Guidlines for Increasing Water Yields in a Semiarid Region: An Arizona Case Study,
W77-06238 1013 3B

Runoff Potential of Desert Catchments in Bikaner District,
W77-06246 1013 4B

Inland Lake Watershed Analysis,
W77-06356 1013 5G

Open Space and Urban Water Management - Phase II: Case Studies and Findings,
W77-06917 1014 6B

Water in the Palouse River Basin, Washington,
W77-06978 1014 4B

Watershed Management and Water Quality,
W77-07951 1016 5G

Watershed Organizations--Impact on Water Quality Management: An Analysis of Selected Michigan Watershed Councils,
W77-08093 1016 4D

The Hydrology of a Small Catchment Basin at Samaru, Nigeria: IV: Assessment of Soil Erosion Under Varied Land Management and Vegetation Cover;
W77-08698 1018 4D

Water as an Environmental Constraint in Land Use Planning,
W77-08721 1018 6G

Unlawful Use, Diversion or Waste of State Water.
W77-08995 1018 6E

Land Management in the Lake Ontario Basin,
W77-09275 1019 6B

Reduction of 2, 4-D Load in Surface Runoff Down a Grassed Waterway,
W77-10323 1021 5G

Great Lakes: Chemical Monitoring,
W77-10924 1022 5B

Forest and Water Reserve Zones.
W77-11196 1022 6E

Root System of Shrub Live Oak: Implications for Water Yield in Arizona Chaparral,
W77-12287 1024 3B

Potential Water Yield Response Following Clearcut Harvesting on North and South Slopes in Northern Idaho,
W77-12366 1024 4C

Case Study of a Watershed Rehabilitation Project: Alkali Creek, Colorado,
W77-12367 1024 4D

Two-Dimensional Model of Erosion from a Watershed,
W77-12575 1024 4D

WATERSHED MODELS

Regional Simulation of Streamflow Data,
W77-08298 1017 2A

U.B.C. Watershed Model,
W77-10969 1022 2A

Designing Conceptual Catchment Models for Automatic Fitting Methods,
W77-12084 1023 2A

WATERSHED PARAMETERS

The Unit Hydrograph: A Satisfactory Model of Watershed Response,
W77-03126 1007 4D

WATERSHED PROTECTION

Gully Development and Control: The Status of Our Knowledge,
W77-00097 1001 2J

Results of the Multiple Catchment Experiments at the Jonkershoek Research Station, South Africa. 2. Influence of Protection of Fynbos on Stream Discharge in Langrivier,
W77-01474 1003 4D

WATERSHED RESERVES

Outdoor Recreation in Watershed Reserves,
W77-04996 1010 6B

WATERSHED STREAM NETWORK

A Variable Source Area Model of the Rainfall-Runoff Process Based on the Watershed Stream Network,
W77-05178 1011 2A

WATERSHEDS (BASINS)

Urban Watershed Management Using Activity Indicators to Predict Water Quality,
W77-00106 1001 5A

Catchment Modeling and Initial Parameter Estimation for the National Weather Service River Forecast System,
W77-00272 1001 2A

Effect of Prescribed Burning on Sediment, Water Yield, and Water Quality from Dozed Juniper Lands in Central Texas,
W77-00679 1002 4C

The Influence of Land Use on Stream Nutrient Levels,
W77-00725 1002 5C

Mountain Watersheds and Dynamic Equilibrium,
W77-00728 1002 4D

Watershed Erosion Model Validation for Southwest Iowa,
W77-00778 1002 4D

Sediment Sources and Yields from Sagebrush Rangeland Watersheds,
W77-00781 1002 4D

Simulating Erosion Dynamics with a Deterministic Distributed Watershed Model,
W77-00788 1002 4D

Sedimentation of a Flatland Watershed in Louisiana,
W77-00789 1002 4D

Sources and Sediment Yield of Hawaiian Watershed and Coastal Sediments,
W77-00791 1002 2J

Comparison of Systems and Physical Hydrology Approaches to Hydrologic Modelling,
W77-00939 1002 2A

Watershed Improvement Districts.
W77-01000 1002 6E

Identifying Urban Flash Flooding Problems,
W77-01351 1003 4A

Operational Arrangement of Raingauge Stations in Forecasting Flash Floods,
W77-01938 1004 4A

Limnological Survey of Sacony Creek Basin, Berks County, Pennsylvania,
W77-02026 1004 5A

Natural and Human Influence on the Hydrological Cycle in South India,
W77-02777 1006 4D

Man's Impact on Erosion in the Rural Environment: The Indian Experience,
W77-02778 1006 4C

Effects of Man's Activities on Erosion in Rural Environments and a Feasibility Study for Rehabilitation,
W77-02779 1006 4C

Erosion Phenomena in Drainage Basins Reflected by Sediment Flow in Rivers (Phenomenes D'Erosion des Bassins Versants Reflcies par les Transports Solides des Cours D'Eau),
W77-02780 1006 2J

Water Erosion and Sediment Discharge,
W77-02783 1006 2J

Predicting Sediment Yield Frequency for Rural Basins to Determine Man's Effect on Long-Term Sedimentation,
W77-02786 1006 4D

Effect of the Growth of the West Part of Mexico City on Hydrodynamic Processes (Effet de la Croissance de la Partie Ouest de la Ville de Mexico Sur Les Processus Hydrodynamiques),
W77-02791 1006 4C

Impact of Urbanization on Water Yield, Flood Peak Sediment Yield, and Water Quality in the Berkeley Hills, California,
W77-02999 1006 4C

State and County Area Tabulations for the Colorado River Basin,
W77-03110 1007 7C

OPTRM - A Hydrologic Transport Model With Parameter Optimization,
W77-03115 1007 5B

Environmental Status of the Lake Michigan Region. Vol. 17. Inland Fishes of the Lake Michigan Drainage Basin,
W77-03566 1007 6G

A Comparison of Modeling and Statistical Evaluation of Hydrologic Change,
W77-03800 1008 4D

Determining Watershed Sub-Areas with Principal Component Analysis,
W77-04012 1008 4D

Surface Soil Moisture Within a Watershed--Variations, Factors Influencing, and Relationship to Surface Runoff,
W77-04253 1009 2G

Estimation of the Depth of Soil Freezing in Drainage Basins in the Central Part of the Northwestern European USSR,
W77-04259 1009 2G

Morphometry and Floods in Small Drainage Basins Subject to Diverse Hydrogeomorphic Controls,
W77-04265 1009 2E

Sediment Yield-Runoff-Drainage Area Relationships in the United States,
W77-04272 1009 2J

Classification of Nested Tributary Basins in Analysis of Drainage Basin Shape,
W77-04880 1010 2E

Florida Water and Related Land Resources Kissimmee--Everglades Area,
W77-05048 1010 4B

Sustained Flow in Small Appalachian Watersheds Underlain by Carbonate Rocks,
W77-05143 1011 2F

A Distributed Converging Overland Flow Model 3. Application to Natural Watersheds,
W77-05168 1011 2E

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, John Day Drainage Basin.
W77-05285 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Deschutes Drainage Basin.
W77-05286 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas. Hood Drainage Basin,
W77-05298 1011 2G

Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

Contribution of Subsurface Flow from the Upper Slopes of Forested Watersheds to Channel Flow,
W77-05436 1011 2G

A Descriptive Catalogue of the Australian Representative Basins 1975.
W77-05816 1012 4D

Multiobjective Programing in Watershed Management: A Study of the Charleston Watershed,
W77-05994 1012 4D

A Sample Comparison of the Geomorphic Character of Two River Basins as Related to Susceptibility to Bridge Failure,
W77-06525 1013 2E

Application of Nitrogen-Isotope Studies to Hydrology and Hydrogeology--Analysis of the Peculiar Case of the Melarchez Basin (Seine-et-Marne, France) (Application de L'Etude Isotopique de L'Azote en Hydrologie et en Hydrogeologie--Analyse des Resultats Obtenus Sur un Exemple Precis: Le Bassin de Melarchez (Seine-et-Marne, France)),
W77-07154 1015 5B

Utilization of the Results from Representative and Experimental Basins with a View to the Management of Water Resources,
W77-07355 1015 4A

Regional Study of the Upper Basin of the AAR from its Sources to Bern: Profile of Floods of a Given Return Period at any Point on the River (Etude Regionale du Bassin Superieur de L'Aar de ses Sources Jusqu'a Berne: Profile des Crues de Periode Donnee le Long du Cours d'eau).
W77-07358 1015 2E

Manning N and the Overland Flow Equation,
W77-07371 1015 2E

Influence of the Drainage Basin on the Eutrophication of the a-Mesotrophic Lake Piaseczno and Diseutrophication of the Pond Lake Bikcze,
W77-07452 1015 5C

Value of Landsat in Urban Water Resources Planning,
W77-07527 1015 6A

Test of Landsat-Based Urban Hydrologic Modeling,
W77-07528 1015 6A

Systems Approach and Watershed Models,
W77-07556 1015 2A

Frequency Analysis of Water Balance Components in Relation to Climatic Factors,
W77-07668 1016 2A

Flood Frequency Studies of Rivers in the Federal Republic of Germany,
W77-07670 1016 2E

Statistical Analysis Applied to the Study of the Components of a Flood Wave,
W77-07674 1016 2E

WATERSHEDS (BASINS)

Optimal Spatial Interpolation and Its Errors in the Case of Various Distances Between Observation Points or Watershed Centres,
W77-07677 1016 4D

Representative and Experimental Basins - Where Next,
W77-07781 1016 2A

Hydrologic Land Use Classification of the Patuxent River Watershed Using Remotely Sensed Data,
W77-08073 1016 7B

Remote Sensing Techniques for Prediction of Watershed Runoff,
W77-08075 1016 7B

Watershed Organizations--Impact on Water Quality Management: An Analysis of Selected Michigan Watershed Councils,
W77-08093 1016 4D

Flash Floods in Spain (Les Crues Brutales En Espagne),
W77-08247 1017 2E

Recent Flash Floods of the Dison Brook (Crues Brutales Recentes Du 'Ruisseau' De Dison (Belgique): Observations Et Previsions),
W77-08250 1017 4A

Natural Stream Temperature Variations in a Catchment,
W77-09039 1018 5B

Urbanization and Flooding - An Example,
W77-09161 1019 4C

Simulation of Agricultural Runoff,
W77-09173 1019 5B

The Operational Water Quantity Model,
W77-09204 1019 4A

Malvern Urban Test Catchment, Volume I,
W77-09217 1019 4D

Nitrate Dynamics in Fall Creek, New York,
W77-09431 1019 5B

Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

Design and Operation of Rain Spillways and Rain Overflow Catchment (Entwurf and Betrieb von Regenuberlaufen (Ru) und Regenuberlaufbecken (RUB),
W77-09822 1020 8B

Small Catchment Flood Modelling,
W77-10083 1020 2E

Performance of Two Deterministic Hydrological Models,
W77-10426 1021 4A

Simulation of the Hydrological Cycle Over the Tisza Valley Using Atmospheric Water Vapour Transport Data,
W77-10427 1021 2A

A Hydrological Model with Physically Realistic Parameters,
W77-10428 1021 2A

Mathematical Simulation Models of Hydrological Processes in Turkey,
W77-10430 1021 2A

Application of Conceptual Rainfall-Runoff Models in a Complex Program,
W77-10437 1021 2A

The Operational Program of Satellite Snowcover Observation at NOAA/NESS.
W77-10668 1021 4A

Watershed Sediment Yield,
W77-10790 1021 4D

A Catchment Simulation Model Developed for Urban and Urbanising Catchments with Particular Reference to the Use of Automatic Optimization Techniques,
W77-10823 1022 2E

U.B.C. Watershed Model,
W77-10969 1022 2A

Flood Discharges of Rivers Draining Across Plains to Oceans Using the Sarthe and the Mayenne (In Western France) as Examples (Contribution to the Methodology of Flood Flows by An Extension of the Gradex Method), (Les Debits De Crue Des Rivieres Des Plaines Oceaniques A Travers L'Exemple De La Sarthe Et De La Mayenne (France De L'Ouest) (Contribution A La Methodologie Des Debits De Crue Par Un Essai D'Extension De La Methode Du Gradex),
W77-11205 1022 2A

The Cequeau Model: Description and Examples of Its Use in Problems Related to Water Resource Management,
W77-11239 1022 2A

NOAA-ARS Cooperative Snow Research Project. Watershed Hydro-Climatology and Data for Water Years 1960-1974,
W77-11662 1023 2C

Planning for Urban Stormwater Control,
W77-11669 1023 5G

A Factor Analysis of Socioeconomic Change in the Tennessee River Watershed,
W77-11767 1023 6B

Water Yield Improvement by Vegetation Management,
W77-11770 1023 3B

Budget of Selected Mineral Nutrients for Two Watershed Ecosystems in the Southeastern Piedmont,
W77-11791 1023 5B

The Integrated Hydrological Catchment Model EGMO,
W77-11815 1023 2A

Controls of Variation in Suspended Sediment Concentration in the River Rother, West Sussex, England,
W77-11824 1023 4D

Digital Simulation of a Drainage Basin,
W77-12082 1023 2A

Designing Conceptual Catchment Models for Automatic Fitting Methods,
W77-12084 1023 2A

Problems of Applying the Conceptual Model Developed for the Flat Catchments of Hungary,
W77-12087 1023 2A

Representation of a Catchment by a Network of Reservoirs,
W77-12088 1023 2A

A Multiple Input System Model for the Hydrological Basin,
W77-12089 1023 2A

Convective Storm Field Simulation for Distributed Catchment Models,
W77-12092 1023 2B

Natural Catchment Representation by a Series Model of Linear Channels-Part 1,
W77-12096 1023 2A

Natural Catchment Representation by a Series Model of Linear Channels-Part 2,
W77-12097 1023 2A

A Determinate Model for Runoff as a Nonlinear System,
W77-12099 1023 2E

Mathematical Model of Spring Runoff Formation,
W77-12101 1023 2A

Mathematical Modelling of the Formation of River Runoff in Mountain Drainage Basins,
W77-12103 1023 2A

Deterministic and Stochastic Modelling of Floods in Mountain Regions,
W77-12104 1023 2A

The Velocity Assumption Behind Linear Invariable Watershed Response Models,
W77-12105 1023 2A

Applied Principles of Catchment Simulation,
W77-12106 1023 2A

Role of WES in the Development of Hydrodynamic Watershed Models,
W77-12107 1023 2A

A Generalized Streamflow Simulation System,
W77-12113 1023 2A

Chicago Metropolitan Floodwater Management Plan,
W77-12162 1023 4A

Urban Runoff Digital Computer Model,
W77-12316 1024 2E

Hydrological Studies on Some River Catchments in Greater London,
W77-12403 1024 2E

Catchbasin Technology Overview and Assessment,
W77-12495 1024 5D

Hydrologic Study of Illinois Beach State Park,
W77-12793 1024 2A

A Finite Element Distributed Catchment Model, I. Analytical Basis,
W77-12798 1024 2A

Stream Network Volume: An Index of Channel Morphometry,
W77-12802 1024 2E

WATERSPOUTS

An Assessment of Waterspout Frequencies Along the U.S. East and Gulf Coasts,
W77-09130 1019 2B

WATERTIGHT

Underwater Habitats for Scientific Research in the Great Lakes,
W77-10060 1020 7B

WATERTON LAKES (ALBERTA)
Limnological and Planktonic Studies in the Waterton Lakes, Alberta,
W77-06680 1014 5C

WATERTON LAKES NATIONAL PARK
Zooplankton and Phytoplankton Studies in the Waterton Lakes, Alberta, Canada,
W77-11415 1022 5C

WATERWAY DISTRICTS
Waterway Districts.
W77-03516 1007 6E

WATERWAYS
Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

WATERWAYS (TRANSPORTATION)
Sediment Movement Induced by Ships in Restricted Waterways,
W77-00886 1002 2L

WATERWAYS (WATERCOURSES)
Sediment Movement Induced by Ships in Restricted Waterways,
W77-00886 1002 2L

WATERWORKS
Pressure Reducing Valves in Pipe Network Analyses,
W77-08855 1018 8B

WATET ALLOCATION (POLICY)
Water and Energy Systems: A Planning Model,
W77-08212 1017 6A

WAVE ACTION
Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

Shoreline Erosion and Landslides in the Great Lakes,
W77-04192 1009 2J

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

WAVE CLIMATE
Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

WAVE CLIMATES
Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

WAVE DATA
Design Wave Information for the Great Lakes; Report 2, Lake Ontario,
W77-12569 1024 8B

WAVE DIFFRACTION
Water Motion on a Beach in the Presence of a Breakwater: 1. Waves,
W77-02474 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 2. Mean Currents,
W77-02475 1005 8B

WAVE DIRECTION MEASUREMENT
Nearshore Wave Direction Gage,
W77-06516 1013 7B

WAVE ENERGY
Coastal Engineering Data Network,
W77-00898 1002 2L

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

Wave Energy Transformation Over Irregular Bottom,
W77-05444 1011 2L

Estimating Wave Generation on Restricted Fetches,
W77-09021 1018 2L

WAVE FORECASTING
Estimating Wave Generation on Restricted Fetches,
W77-09021 1018 2L

WAVE HEIGHT
Second Approximation to Gravity Wave Attenuation,
W77-05366 1011 8B

WAVE HEIGHT MEASUREMENT
Wave Height Measuring Device,
W77-08897 1018 7B

WAVE HEIGHTS
Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

WAVE-INDUCED MASS-TRANSPORT CURRENTS
Theoretical Monochromatic-Wave-Induced Currents in Intermediate Water with Viscosity and Nonzero Mass Transport,
W77-02159 1005 2L

WAVE PREDICTION
Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

WAVE REFLECTION
A Variational Approach to Nonlinear Wave Theory,
W77-02942 1006 8B

WAVE REFRACTION
Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

Wave Refraction Diagrams for the Baltimore Canyon Region of the Mid-Atlantic Continental Shelf Computed by Using Three Bottom Topography Approximation Techniques,
W77-08912 1018 2L

WAVE SPECTRA
Rederivation of the Saturation Range in the Frequency Spectrum of Wind-Generated Gravity Waves,
W77-05802 1012 2L

Comparison of Remotely Sensed Continental-Shelf Wave Spectra with Spectra Computed by Using a Wave Refraction Computer Model,
W77-08911 1018 2L

WAVE STEEPNESS
Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

WAVE THEORY
Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

WAVELENGTH DEPENDENCY
Phenalen-1-One: Occurrence in a Fuel Oil and Toxicity to Microalgae,
W77-07106 1015 5C

WAVELENGTHS
Geometry of River Meanders,
W77-01340 1003 2E

WAVES (WATER)
Wave Generator,
W77-00691 1002 8C

Power Generating Machine Actuated by Ocean Swells,
W77-00692 1002 8C

Sediment Transport in the Coastal Zone,
W77-00840 1002 2L

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

Wave Energy Machine,
W77-01194 1003 8C

Breakwater System for Creating Artificial Sandbars,
W77-01231 1003 8B

Waves in Coastal Waters Off Mangalore; Pt. I: Distribution of Wave Characteristics,
W77-01330 1003 2L

On Polarization Features of Radio Signals Scattered from the Sea Surface at Small Grazing Angles,
W77-01620 1004 2L

On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

Geometry of Ripples and Dunes in Alluvial Channels,
W77-02130 1005 2J

Theoretical Monochromatic-Wave-Induced Currents in Intermediate Water with Viscosity and Nonzero Mass Transport,
W77-02159 1005 2L

Partial Wave Damping in Pneumatic Breakwaters,
W77-02455 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 1. Waves,
W77-02474 1005 8B

Water Motion on a Beach in the Presence of a Breakwater: 2. Mean Currents,
W77-02475 1005 8B

An Evaluation of Parameters for the Theoretical Distribution of Periods and Amplitudes of Sea Waves,
W77-02479 1005 2H

Notes on Tidal Inlets on Sandy Shores,
W77-02504 1005 2L

An Effect of Permeability on Sand Transport by Waves,
W77-02508 1005 2L

Numerical Modeling of Resonant Oscillations in Deep Draft Harbors,
W77-02935 1006 8B

A Variational Approach to Nonlinear Wave Theory,
W77-02942 1006 8B

Transmission of Wave Energy through and Overtopping of the Long Beach, California, Breakwater; Hydraulic Model Investigation,
W77-02945 1006 8B

Design for Wave Protection, Flood Control, and Prevention of Shoaling, Cattaraugus Creek Harbor, New York; Hydraulic Model Investigation,
W77-02952 1006 8B

Los Angeles and Long Beach Harbors Model Study; Report 3, Analyses of Wave and Ship Motion Data,
W77-02955 1006 8B

High-Wave Conditions Observed Over the North Atlantic in September 1961,
W77-03090 1007 2L

Landslide Generated Water Wave Model,
W77-03318 1007 8B

Numerical Models for the Prediction of Wave Set-Up and Nearshore Circulation,
W77-03769 1008 2L

Measurements of Waves in Southampton Water and their Variation with the Velocity of the Tidal Current,
W77-03856 1008 2L

A Method for the Automatic Measurement of Wave Frequency,
W77-03981 1008 2L

Symmetric Finite-Amplitude Rotational Water Waves,
W77-04266 1009 2L

Shoreline Waves, Another Energy Crisis,
W77-04467 1009 2L

The Annual Cycle of Wave Climates Along the East Coast of the United States,
W77-04482 1009 2L

A Note on Long Waves in Shallow Channels with Running Water,
W77-04752 1010 2E

Long-Period Waves on a Natural Beach,
W77-05157 1011 2L

Second Approximation to Gravity Wave Attenuation,
W77-05366 1011 8B

Rederivation of the Saturation Range in the Frequency Spectrum of Wind-Generated Gravity Waves,
W77-05802 1012 2L

Wave-Induced Circulation in Shallow Basins,
W77-05970 1012 8B

Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

Wave Energy Power Generating Breakwater,
W77-06449 1013 8B

Nonlinear Flow of Wave Crests Past a Thin Pile,
W77-06515 1013 8B

Nearshore Wave Direction Gage,
W77-06516 1013 7B

A Study to Forecast the Waves at Digha,
W77-06648 1014 2L

Observations of Wind-Generated Waves on Variable Current,
W77-06896 1014 2L

The Scaling of Velocity Fluctuations in the Surface Mixed Layer,
W77-07768 1016 2L

Observations of Wave Height and Wave Celerity in the Surf Zone,
W77-07770 1016 2L

Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Surface Particle Orbits in Uniform Waves,
W77-08845 1018 8B

Wave Height Measuring Device,
W77-08897 1018 7B

Wave Forces on Models of Submerged Offshore Structures,
W77-09232 1019 8B

Coastal Engineering Data Network. Second Semi-Annual Report July 1976 to December 1976,
W77-09329 1019 8B

Motor Powered by Wave Action,
W77-09803 1020 8C

Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1973-75,
W77-09982 1020 2L

Seasonal Variations in Great Lakes Design Wave Heights: Lake Erie,
W77-09986 1020 8B

Lake Erie International Jetport Model Feasibility Investigation; Report 17-4, Numerical Model Feasibility Study,
W77-10048 1020 8B

Breaking Waves,
W77-10317 1021 8B

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

Wave and Current Operated Power Generating Device,
W77-10994 1022 8B

Oscillations in Harbors Containing Islands,
W77-11046 1022 2L

Breaking Wave Criterion On a Sloping Beach,
W77-11585 1023 8B

Wave and Tide Actuated Hydraulic Electrical Generating Apparatus,
W77-11933 1023 8C

Wave Operated Power Plant,
W77-11934 1023 8C

Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71,
W77-12540 1024 2H

Design Wave Information for the Great Lakes; Report 2, Lake Ontario,
W77-12569 1024 8B

The Use of Aerial Photography in the Study of Wave Characteristics in the Coastal Zone,
W77-12573 1024 7B

Apparatus for Generating Electricity and Power from Natural Water Flow,
W77-12705 1024 8A

WAXES

Laboratory Evaluation of Wax and Silicone for Water Harvesting on Coal Mine Spoil,
W77-02589 1006 3B

WEATHER

A Study of Some Effects of Vertical Shear on Thunderstorms,
W77-00168 1001 2B

An Aid to Agricultural Dew Forecasting,
W77-01704 1004 2B

Economic Impacts of Weather Variability,
W77-02429 1005 3B

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-05310 1011 3B

Adaptive Short-Term Water Demand Forecasting,
W77-09202 1019 6D

WEATHER CYCLES

Markov-Dependent Geometric Models for Weather Spells and Weather Cycles-A Study,
W77-12554 1024 2B

WEATHER DATA

Sea Surface Temperature Fluctuations at Tidal Frequencies at Weather Ships Charlie and Delta,
W77-00137 1001 2L

An Examination of the Reliability of Short Term Records in Precipitation Variability Studies,
W77-01904 1004 2B

Economics of Storm Protection,
W77-02672 1006 6F

Great Lakes Ice Cover, Winter 1974-75,
W77-02677 1006 2C

Coastal Dynamics and Sediment Transportation, Northeast Gulf of Alaska,
W77-03245 1007 2L

Forecasting Floods in Hawaii (Excluding Hawaii Island),
W77-06873 1014 4A

WEATHER FORECASTING

Evaluation of Techniques for Long-Range Forecasting of Air Temperature and Ice Formation,
W77-00275 1001 2C

An Examination of the Reliability of Short Term Records in Precipitation Variability Studies,
W77-01904 1004 2B

Preparation of Hydrodynamical-Numerical and 3-Parameter Small-Mesh Atmospheric Models for Coastal Waters in the Gulf of Alaska,
W77-03235 1007 5B

Rainfall in the Sudan Savanna Region of Nigeria,
W77-04790 1010 2B

Expected Future Rainfall Over Selected Parts of South Africa,
W77-10198 1021 2B

WEATHER MODIFICATION

Final Report on an Investigation of Precipitating Ice Crystals from Natural and Seeded Winter Orographic Clouds,
W77-00096 1001 3B

Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification,
W77-01051 1003 3B

Draft Environmental Statement: Project Skywater A Program of Research in Precipitation Management, Volume I of II.
W77-01187 1003 6G

Is Man Changing the Weather.
W77-01353 1003 3B

Final Report, High Plains Cooperative Program Cloud Survey and Seeding Research Aircraft and Associated Data Processing,
W77-01687 1004 3B

Ecological Impacts of Snowpack Augmentation in the San Juan Mountains of Colorado.
W77-02160 1005 3B

Economic Impacts of Weather Variability,
W77-02429 1005 3B

Inadvertent Weather Modification,
W77-02453 1005 3B

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-02500 1005 2B

Colorado River Basin Pilot Project, Comprehensive Evaluation Report, Five Winter Seasons 1970-71 to 1974-75,
W77-03060 1006 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume I - Meteorology and Hydrology of the Northern Sierra Nevada, Final Report.
W77-03213 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume II - Physical and Statistical Design, Final Report.
W77-03214 1007 3B

Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Volume III - Operational Design, Final Report.
W77-03215 1007 3B

Electrostatic Induction Parameters to Attain Maximum Spray Charge to Clear Fog,
W77-03299 1007 3B

Artificial Modification of Atmospheric Processes,
W77-03303 1007 3B

Spacial Variation of Precipitation on the Texas High Plains,
W77-04793 1010 2B

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-05310 1011 3B

Rainfall Results, 1970-1975: Florida Area Cumulus Experiment,
W77-05975 1012 3B

The 1974 Skywater Workshop,
W77-05976 1012 3B

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Weather Modification in the Soviet Union--1976,
W77-06644 1014 3B

On the Status of Hail Suppression,
W77-06645 1014 3B

Compressed Air for Supercooled Fog Dispersal,
W77-06674 1014 3B

Physical Problems of Weather Modification,
W77-07357 1015 3B

Final Report on The Pyramid Lake Pilot Project, 1970-1975, Volume 1, Text of Report,
W77-07566 1015 3B

Final Report on the Pyramid Lake Pilot Project, 1970-1975, Volume 2, Appendices,
W77-07567 1015 3B

Reclamation Research in the Seventies, Second Progress Report,
W77-07600 1015 8A

Weather Modification Effects and Management (A Bibliography with Abstracts),
W77-09694 1020 2B

Cloud Seeding Experimental Program in Rhodesia: 1974-75,
W77-10306 1021 3B

Preliminary Evaluation of the 1976 Rain Modification Project in Central Illinois,
W77-10774 1021 3B

An Examination of the Rainfall Distribution Over the Target Area of the Colorado River Municipal Water District's Weather Modification Program,
W77-10775 1021 3B

United States and Mexico: Weather Technology Water Resources and International Law,
W77-11173 1022 6E

Empirical Predictors for Natural and Seeded Rainfall in the Florida Area Cumulus Experiment (FACE), 1970-1975,
W77-11596 1023 3B

Use of the LANDSAT-2 Data Collection System in the Colorado River Basin Weather Modification Program,
W77-12329 1024 3B

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-12816 1024 3B

WEATHER PATTERNS

Control of Ambient SO2 Concentrations by Noncontinuous Emission Limitation Large Coal-Fired Power Plants,
W77-02059 1004 6G

Frequency and Probability of Dry Spells at Dharwar,
W77-04317 1009 2B

Workshop for an Assessment of the Present and Potential Role of Weather Modification in Agricultural Production,
W77-05310 1011 3B

Flash Floods in the Western Mediterranean (Les Crues Catastrophiques sur la Mediterranee Occidentale),
W77-08245 1017 2E

Expected Future Rainfall Over Selected Parts of South Africa,
W77-10198 1021 2B

WEATHER RADAR

Use of Radar Information in Determining Flash Flood Potential,
W77-02509 1005 2B

WEATHER RADARS

Radar-Gage Precipitation Measurements During the IFYGL,
W77-05130 1011 2H

WEATHERING

Compositional Changes of a Fuel Oil from an Oil Spill Due to Natural Exposure,
W77-00183 1001 5B

Factors Governing the Fate of Oil at Sea; Variations in the Amounts and Types of Dissolved or Dispersed Materials During the Weathering Process,
W77-00250 1001 5B

Hydrogeochemistry of the Genoa River Basin, New South Wales - Victoria (Australia),
W77-00452 1001 2K

A Thermodynamic Model for Predicting the Formation, Stability, and Weathering of Common Soil Minerals,
W77-02285 1005 2G

Aqueous Solubilities of Weathered Northern Crude Oils,
W77-05376 1011 5A

Geologists Claim Health Can be Traced to Rocks,
W77-07290 1015 5B

Uranium Oxidation and Probable Subaerial Weathering of Phosphatized Limestone from the Pourtales Terrace,
W77-09951 1020 2J

The Geochemistry of Manganese, Iron, Uranium, Lead-210, and Major Ions in the Susquehanna River,
W77-12544 1024 2K

WEBER BASIN PROJECT (UTAH)

Improvement of Planning for Post-Development Water Resource Management: A Study of the Weber Basin Project,
W77-06739 1014 6B

WEDDELL SEA

On the Characteristics and Circulation of the Southwestern Atlantic Ocean,
W77-06524 1013 2L

WEED CONTROL
Some Hygienic Problems Related to the Use of Herbicides of the 2,4-Dichlorophenoxyacetic Acid Group, (In Russian),
W77-02231 1005 5G

Occurrence and Determination of a Herbicide Benthiocarb in Rivers and Agricultural Drainages,
W77-07361 1015 5A

Weed Management Tool Herbigation for Irrigated Cropland,
W77-12515 1024 3F

WEEDS
Protein Production by Russian Thistle: Effects of Water and Nitrogen on Protein Yields,
W77-07281 1015 3F

WEIGHING LYSIMETER
Evapotranspiration of a Douglas Fir Determined with a Weighing Lysimeter,
W77-05959 1012 2D

WEIR NAPPES
Emerging Nappe Subject to Fluctuating Underpressures,
W77-05796 1012 8B

WEIRS
Instrumentation in the Water Industry.
W77-00601 1002 5A

Gaging Sediment-Laden Flows With V-Notch Weirs,
W77-00845 1002 2J

Experimental Investigation of Flow Over Side Weirs,
W77-03317 1007 8B

Supercritical Flow Over Sills,
W77-03747 1008 8B

Instrumentation for Field Studies of Urban Runoff,
W77-04246 1009 2E

Characteristics of Proportional Weirs,
W77-05355 1011 8B

Induced Oscillations of Liquid Jet-Gas Cavity System,
W77-06301 1013 8B

The Calibration of Sharp Crested Weirs by the Pondage Drawdown Method,
W77-09113 1019 8C

North Fork Lake Spillway San Gabriel River, Texas; Hydraulic Model Investigation,
W77-10017 1020 8B

Proportional Weirs as Velocity Controlling Devices,
W77-10118 1021 8B

WEISS SATUROMETER
The Weiss Saturometer; Magic Box Solves Gas Measurement Puzzle,
W77-05418 1011 5A

WEISSE MOOR (WEST GERMANY)
Influences of Some Peat Soil Features on the Capillary Water Supply, (In German),
W77-09626 1020 2G

WELFARE CHANGE MEASUREMENT
The Theory of Welfare Cost Measurement,
W77-00709 1002 6B

WELFARE (ECONOMICS)
The Theory of Welfare Cost Measurement,
W77-00709 1002 6B

Cooperative Control of International Pollution and Common Property Resources,
W77-01290 1003 5G

Future Environmental Needs and Costs,
W77-02044 1004 6G

'Common Property' as a Concept in Natural Resources Policy,
W77-02064 1004 6B

Flood Plain Management Through Allocation of Land Uses -- A Dynamic Programming Model,
W77-05720 1012 6F

The Evaluation of Simple and Optimal Decision Rules with Misspecified Welfare Functions,
W77-07439 1015 6B

WELL CASING
Cementing Oil and Gas Wells, Including Casing Handling Procedures: Part 1,
W77-07697 1016 8F

WELL CASING MAKE-UP
Cementing Oil and Gas Wells, Part 2 - Casing Inspection and Pipe Handling Methods, Including Thread Make-Up Control,
W77-08327 1017 8F

WELL CASING SEALS
Geothermal Energy Well Casing Seal,
W77-01205 1003 8B

WELL CASINGS
Improved Cementing Techniques for Large Diameter Casing,
W77-04291 1009 8F

Bits and Pieces,
W77-06866 1014 8G

The Cable Tool Drilling Machine, Part IV,
W77-07287 1015 8C

Cathodic Projection of Borehole Casing,
W77-07297 1015 8G

Slurry and Pumping Guidelines Smooth Casing-Cementing Jobs,
W77-07699 1016 8F

Better Protection for Casing and Tool Joints,
W77-08315 1017 8G

Cementing Oil and Gas Wells, Part 2 - Casing Inspection and Pipe Handling Methods, Including Thread Make-Up Control,
W77-08327 1017 8F

Methods Used for Drilling Wells in the Soviet Union,
W77-08659 1018 8C

Buried Well Seals: A New Method of Reconstruction,
W77-12665 1024 5G

WELL CONSTRUCTION
The Legal Responsibility of Water Well Drillers,
W77-06862 1014 5G

WELL CONTRACTOR LIABILITY
The Legal Responsibility of Water Well Drillers,
W77-06862 1014 5G

WELL DATA
Towards A Computer-Based Information-Retrieval System for Groundwater Data,
W77-00377 1001 7C

Hydrogeologic Data from the Great Bend Prairie, South-Central Kansas,
W77-00426 1001 4B

Ground-Water Data for Attala County, Mississippi,
W77-00484 1001 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part A,
W77-00854 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part B,
W77-00855 1002 7C

Ground-Water Levels and Well Records for Discontinued Observation Wells in Idaho, 1915-72: Part C,
W77-00856 1002 7C

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

Evidence of Salt-Water Intrusion in Southeastern Long Island,
W77-01924 1004 5B

Ground-Water Records for Southeastern Oklahoma: Part 1--Records for Wells, Test-Holes, and Springs,
W77-02024 1004 7C

Descriptions and Chemical Analyses for Selected Wells in the Central Sacramento Valley, California,
W77-02299 1005 2K

Ground-Water Hydrology of the Cocoa Well-Field Area, Orange County, Florida,
W77-02323 1005 4B

Records of Wells and Water Quality for the Garber-Wellington Aquifer, Northern Oklahoma and Southern Logan Counties, Oklahoma,
W77-02974 1006 4B

The Occurrence of Groundwater in the Satpura Region of Central India,
W77-03146 1007 4B

Appraisal of Water Resources in the Hackensack River Basin, New Jersey,
W77-03336 1007 2F

Summary of Geology and Ground-Water Resources of Passaic County, New Jersey,
W77-03345 1007 4B

Selected Data on Water Wells, Geothermal Wells, and Oil Tests in Imperial Valley, California,
W77-03348 1007 7C

Model-Free Statistical Methods for Water Table Prediction,
W77-04264 1009 4B

Ground-Water Data for Leflore County, Mississippi,
W77-05265 1011 7C

Ground-Water Data for Humphreys County, Mississippi,
W77-05266 1011 7C

Ground-Water Data for Issaquena County, Mississippi,
W77-05267 1011 7C

Ground-Water Data for Quitman County, Mississippi,
W77-05268 1011 7C

Ground-Water Data for Coahoma County, Mississippi,
W77-05269 1011 7C

Ground-Water Data for Tate County, Mississippi,
W77-05270 1011 7C

Ground-Water Data for Tunica County, Mississippi,
W77-05271 1011 7C

Ground-Water Basic Data for Ramsey County, North Dakota,
W77-08177 1017 7C

Records of Wells, Water-Level Measurements, and Drillers' Logs, Red River Valley, Louisiana,
W77-08734 1018 7C

Recommendations for the Routine Recording of Borehole Data for Hydrogeological Purposes,
W77-10224 1021 4B

Flowing Wells in Michigan 1974,
W77-11375 1022 4B

Well Records, Water-Level Measurements, Logs of Test Holes, and Chemical Analyses of Ground Water in the Cache River Alluvial Aquifer-Stream System, Northeast Arkansas, 1946-76,
W77-12371 1024 7C

WELL DESIGN

Energy Costs Dictate Efficient Well Design,
W77-04119 1009 8B

Submersible Pump Design: Dependent on Well Diameter and Depth.
W77-06867 1014 8C

WELL DEVELOPMENT

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

WELL EFFICIENCY

Irrigation Well Efficiency,
W77-04292 1009 8B

New Instrument Expands Water Well Technology,
W77-10521 1021 8G

WELL FIELDS

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

WELL FILTERS

Resin-Coated Gravel is Used to Help Control Sand,
W77-08316 1017 8G

WELL HYDRAULICS

Ground-Water Data for the Santa Maria Valley, California,
W77-01415 1003 4B

WELL LOGGING

Well Logging Manual.
W77-04115 1009 8G

WELL-MIXED ESTUARIES

Numerical Computation of Well-Mixed Estuarine Flows,
W77-01139 1003 2L

WELL PERMITS

Water Management and Administration in the Southwest Florida Water Management District,
W77-01101 1003 6E

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

Artesian Wells.
W77-08397 1017 6E

Ohio Liquid Disposal, Inc V Dawe (Defining 'Waters of the State' Within Water Pollution Control Statute).
W77-08401 1017 6E

EPA Jurisdiction Over Well Injection Under the Federal Water Pollution Control Act,
W77-11164 1022 5G

Underground Waters.
W77-11203 1022 6E

WELL REDEVELOPMENT

Well Redevelopment: Part 1,
W77-12673 1024 8B

WELL REGULATION

Country Knolls Water Works, Inc V Reid (Limitation of Output of Private Water Supplier's Well).
W77-01115 1003 6E

WELL REGULATIONS

Water Management and Administration in the Southwest Florida Water Management District,
W77-01101 1003 6E

The Ground Water Legal Regime as Instrument of Policy Objectives and Management Requirements,
W77-01181 1003 6E

The Legal Responsibility of Water Well Drillers,
W77-06862 1014 5G

Law, Rules, and Regulations Pertaining to Groundwater in Nebraska,
W77-07695 1016 4B

Artesian Wells.
W77-08397 1017 6E

WELL SCREENS

Short, Large Diameter Screens Prove Effective,
W77-04120 1009 8G

The Chief Driller's Report on JCCIP,
W77-07288 1015 8C

Methods Used for Drilling Wells in the Soviet Union,
W77-08659 1018 8C

WELL SEALING

Eliminating Iron-Bearing Water from Well No. 7,
W77-07702 1016 5G

WELL SPACING

Two-Dimensional Searches for High-Yield Well Sites,
W77-10967 1022 8B

Composite Well Systems,
W77-12678 1024 8B

WELLPOINTS

Method for Lowering Ground Water,
W77-01196 1003 8B

WELLS

Shunt Line Metering System for Irrigation Wells,
W77-01623 1004 8G

New Developments Will Cut Drilling Time, Expense,
W77-01764 1004 8G

Cache La Poudre Water Users Association V Glacier View Meadows (Appropriation of Water in Plan of Augmentation).
W77-03520 1007 6E

Boyer V Dept of Health (Location of Leach Field Relative to Water Supply).
W77-03713 1008 6E

A Subsurface Study of the Mesa Geothermal Anomaly, Imperial Valley, California,
W77-03771 1008 2F

Well Logging Manual.
W77-04115 1009 8G

Improved Cementing Techniques for Large Diameter Casing,
W77-04291 1009 8F

Radial Flow with Discharging-Well and Observation-Well Storage,
W77-05144 1011 4B

Performance of a Recharge and Recovery System in an Aquifer with Uniform Flow,
W77-06905 1014 2F

Some Experiments on the Gas-Disease in Freshwater Fishes, (In Japanese),
W77-07714 1016 5C

Subsurface-Temperature Data for Some Wells in Western Utah,
W77-08166 1017 7C

Minimizing Costs in Well Field Design in Relation to Aquifer Models,
W77-08214 1017 4B

Type Curves for Recovery of a Discharging Well with Storage,
W77-09340 1019 2F

Fluctuations in the Waterlevel in Wells Due to Variations in Atmospheric Pressure,
W77-11606 1023 4B

WENONAH-MOUNT LAUREL AQUIFER (NJ)

Digital-Simulation Model of the Wenonah-Mount Laurel Aquifer in the Coastal Plain of New Jersey,
W77-02975 1006 2F

WERRIBEE R. (VIC)

Werribee River Basin: Proposals for Water Resources Management,
W77-05524 1011 4A

WESER ESTUARY (GERMANY)
Studies on Fungal Propagules in the Weser Estuary (German Bight): I. Quantitative Data 1974, (In German),
W77-07583 1015 5C

Data 1973/1974 Regarding Hydrography and Water Quality in the Weser Estuary, Germany, (In German),
W77-07584 1015 5C

WESER ESTUARY (W GERMANY)
The Common Mussel Mytilus Edulis as Indicator for the Lead Concentration in the Weser Estuary and German Bight, (In German),
W77-11520 1023 5A

WESSEX WATER AUTHORITY (ENG)
Reorganizing Pollution Control in the U.K.
W77-08111 1017 5G

WESSEX WATER AUTHORITY (UK)
Ductile Iron Pipes to Carry Wimbleball Water.
W77-12464 1024 8G

WEST AFRICA
Monsoon Rains Over West Africa,
W77-06322 1013 2B

WEST BLUE LAKE (MANITOBA)
The Influence of Temperature and Bacterial Numbers on the Heterotrophic Uptake of C14 Glucose in West Blue Lake, Manitoba,
W77-07995 1016 5C

WEST BOLSA GROUND-WATER BASIN (CALIF)
Mathematical Model of the West Bolsa Ground-Water Basin, San Benito County, California,
W77-05748 1012 2F

WEST BRANCH DELAWARE RIVER (NY)
Floodflow Characteristics at Proposed Bridge Site Above Sherwood Road on West Branch Delaware River, Delhi, New York,
W77-03337 1007 4A

WEST FORK BIG BLUE RIVER (NB)
Special Flood Hazard Information Report: South Branch West Fork Big Blue River, Hastings, Nebraska.
W77-04219 1009 4A

WEST FORK DES MOINES RIVER (MN)
West Fork Des Moines River and Perkins Creek Flood Plain Information, Windom, Minnesota.
W77-09371 1019 4A

WEST GERMANY
Caloric Values of the Most Abundant Invertebrates of Two Woodland-Brooklets of the 'Naturpark Kottenforst-Ville', (In German),
W77-00415 1001 2I

Comparative Studies on the Action of Chlorine and Ozone on Polioviruses in the Reprocessing of Drinking Water in Essen, (In German),
W77-00419 1001 5F

The Mineral Content in Soil and Subsoil Water Close to the Surface Below Coniferous and Arable Land in Sandy Soil of Northwest Germany, (In German),
W77-00493 1001 2G

Issues and Innovations in Environmental Policy in Britain, West Germany, and California,
W77-05216 1011 6G

Soil Water and Air Regime Under Forest and Agriculture in Loess Soils in Southwest Germany, (In German),
W77-06458 1013 2G

Flood Frequency Studies of Rivers in the Federal Republic of Germany,
W77-07670 1016 2E

The Invertebrate Fauna of the Broel and Its Tributary Brooks, (In German),
W77-07746 1016 5C

German Pollution Control,
W77-07863 1016 5G

Study on Economic and Policy Instruments for Water Management. Water Management in the Federal Republic of Germany.
W77-09461 1019 6E

Intensive Large City Influence on Reed-Banks, (In German),
W77-09621 1020 5C

The (West German) Waste Water Discharge Tax Law (Das Abwasserabgabengesetz),
W77-10695 1021 5G

WEST GERMANY (ELBE RIVER)
Heavy-Metal Pollution of Elbe River Sediments, (In German),
W77-12978 1024 5A

WEST GERMANY (FRIEDBERGER AU REGION)
The Distribution of Callitriche Obtusangula Legall in the Streams of the Friedberger au Region, (In German),
W77-04588 1009 5C

WEST GERMANY (LAKE OF STARNBERG)
The Lake of Starnberg and the Management of Its Coregonid Population with Respect to Its Trophic State, (In German),
W77-05414 1011 5C

WEST RIVER (VT)
Flood Plain Information: West River and Utley Brook: Weston-Londonderry, Vermont.
W77-12606 1024 4A

WEST VIRGINIA
Water Pollution Control Law of 1972, Regional Impacts, Kanawha River.
W77-01975 1004 5G

Some Thermal and Biological Effects of Forest Cutting in West Virginia,
W77-04273 1009 5C

The Federal Water Pollution Control Act Amendments of 1972 as Applied to the Surface Mine in West Virginia - Pollutant Discharge Permit Requirements,
W77-07240 1015 5G

Investigation of Acid Mine Drainage Effects on Reservoir Fishery Populations,
W77-07827 1016 5C

Boom Companies; Construction, Powers Of,
W77-08157 1017 6E

Ground-Water Hydrology of Berkeley County, West Virginia,
W77-09083 1018 4B

Releasing Dead Animals, Etc., Into or Near Waters.
W77-10501 1021 6E

An Evaluation of Precipitation Gage Density in a Mountainous Terrain,
W77-10800 1021 2B

Storm Characteristics and Rainfall Intensity in West Virginia,
W77-12261 1024 2B

WESTER US (WATER PROBLEMS)
An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

WESTERLY (RI)
The National Flood Insurance Program and Coastal Real Estate Development: The Experience of Westerly, Charlestown, and South Kingstown, Rhode Island,
W77-10931 1022 6F

WESTERN AUSTRALIA
Water Resource and Land Use Problems in Western Australia,
W77-09296 1019 4C

WESTERN BUZZARDS BAY (MA)
Fine-Grained Sediment and Industrial Waste Distribution and Dispersal in New Bedford Harbor and Western Buzzards Bay, Massachusetts,
W77-09326 1019 5B

WESTERN DIVISION
Erosion Control,
W77-04315 1009 4D

WESTERN EUROPE
Economic Role of the Waterway in Western Europe,
W77-08860 1018 4A

WESTERN NORTH ATLANTIC OCEAN
Tar Ball Distribution in the Western North Atlantic,
W77-07757 1016 5B

WESTERN RED-CEDAR (THUJA PLICATA)
Aqueous Leachate from Western Red Cedar: Effects on Some Aquatic Organisms,
W77-03799 1008 5C

WESTERN U. S.
Energy, Water, and the West,
W77-00542 1002 6D

The Impact of Proposed Federal Energy Development on Western Water Resources,
W77-00543 1002 4C

Federal and State Governments, and The Indian Nations: Water Rights, Conflicts, and Policies,
W77-00544 1002 6E

WESTERN UNITED STATES
1973 Western State Conference on Water Information Dissemination.
W77-03166 1007 10C

Mineral Content of Selected Geothermal Waters,
W77-06667 1014 3E

The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

WESTFIELD RIVER
Connecticut River Basin, Supplemental Study, New Hampshire, Vermont, Mass. and Conn. The River's Reach. Phase II. Land Use Changes in Selected Flood Plains,
W77-04205 1009 4A

WESTLAKE (TX)
Flood Plain Information: Kirkwood Branch and Dove Creek, Southlake, Texas.
W77-12596 1024 4A

WESTLANDS WATER DISTRICT (CALIF)
What's Really Happening in Westlands,
W77-04921 1010 6E

WESTWIDE STUDY REPORT
An Appraisal of Conflicting Institutional Attitudes on the Westwide Study Report.
W77-03157 1007 6B

WET AIR OXIDATION
Austenitic Stainless Steels and Titanium for Wet Air Oxidation of Sewage Sludge,
W77-06145 1013 5D

Involvement of Free Radicals in the Catalytic Oxidation of Phenol in Aqueous Solution,
W77-08201 1017 5D

WET COMBUSTION
Wet Combustion of Organics,
W77-04957 1010 5D

WET COOLING TOWERS
Wet Cooling Tower with Plume Eliminator,
W77-01193 1003 5G

WET GEOTHERMAL SYSTEMS
Physical Modeling of Combined Forced and Natural Convection in Wet Geothermal Formations,
W77-07303 1015 4B

WET OXIDATION
Purification of Non-Biodegradable Industrial Wastewaters,
W77-01747 1004 5D

Wet Oxidation of Clarification Sludge and Pulp Effluent by the Zimpro Process (Nassoxydation von Klaerschlamm und Zellstoffablauge mit dem Zimpro-Verfahren),
W77-03823 1008 5D

Disposal of Feedlot Wastes Using a Two-Stage Process with Net Energy Production,
W77-07816 1016 5D

WET PROCESS PLANT
Radionuclide Removal By the pH Adjustment of Phosphate Mill Effluent Water,
W77-09180 1019 5D

WET SEASONS
A Note on the Study of Rainy Days and Wet Spells at Bijapur,
W77-08455 1017 2B

WETLAND
Coastal Zone Boundaries.
W77-02685 1006 2L

WETLAND FORESTS
Hydrologic Model of a Wetland Forest--Details of Construction,
W77-05115 1011 4D

WETLAND-UPLAND TRANSITION
Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

WETLANDS
Pilot Investigation of the Importance of Various Wetland Types to Duck Production,
W77-00145 1001 2H

Beware The Wrath Of Osiris,
W77-00177 1001 4A

Housing Development Canals in the Coastal Zone of the Gulf of Mexico: Ecological Consequences, Regulations, and Recommendations,
W77-00701 1002 6G

O'Brien V Barnes Building Company (Definition of Tidal Wetlands).
W77-01016 1002 6E

Proceedings of the National Wetland Classification and Inventory Workshop, 1975.
W77-01682 1004 4A

Evaluation of Estuarine Site Development Lagoons,
W77-02088 1005 5G

Nitrate Removal from Water at the Water-Mud Interface in Wetlands,
W77-02441 1005 5G

Maryland Uplands Natural Areas Study. Vol I: Eastern Shore,
W77-02690 1006 2L

Maryland Uplands Natural Areas Study. Vol II: Eastern Shore Field Notebook,
W77-02691 1006 2L

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

The Effects of Sewage Effluent on Wetland Ecosystems,
W77-03354 1007 5C

Legal Symposium on Wetlands: An Executive Summary, November 1974,
W77-03685 1008 6E

Legal Protection for Florida Wetlands,
W77-03696 1008 6E

Long-Term Chemical Effects of Petroleum in South Louisiana Wetlands - 1. Organic Carbon in Sediments and Waters,
W77-04043 1008 5C

Barataria Basin: Geologic Processes and Framework,
W77-04187 1009 2L

Barataria Basin: Biological Characterization,
W77-04188 1009 2L

Symposium, The Future of Chesapeake Bay.
W77-04203 1009 6G

The Wetlands Dilemma: A Solution,
W77-04477 1009 6G

Interim Classification of Wetlands and Aquatic Habitats of the United States,
W77-05049 1010 4A

Barataria Basin: Hydrologic and Climatologic Processes,
W77-05133 1011 2L

Oil and Gas Use Characterization, Impacts, and Guidelines,
W77-05134 1011 6G

The Impacts of Outer Continental Shelf Development on Lafourche Parish,
W77-05136 1011 6G

Modification of Coastal Wetlands in Southeastern Michigan and Management Alternatives,
W77-05217 1011 4A

Extent and Distribution of Areas of Environmental Concern in North Carolina,
W77-05404 1011 6G

Hydraulics of Sheet Flow in Wetlands,
W77-06929 1014 8B

Rappl and Hoenig Company, Incorporated v. New York State Department of Environmental Conservation (Applicability of Fresh Water Wetlands Act to Artificially Created Wetlands).
W77-07269 1015 6E

Nutrient Transformations in Louisiana Salt Marsh Soils,
W77-07319 1015 5C

Federal Control Over Wetland Areas: The Corps of Engineers Expands its Jurisdiction,
W77-08123 1017 5G

Coastal Zone Legislation: Louisiana Landmarks, Labyrinths and Logrolling,
W77-08186 1017 6E

Delineation of Deciduous Wetland Forests in Northeastern Connecticut,
W77-08194 1017 2G

Russo V. New York Dept. of Environmental Conservation (Limits of State Regulations Restricting Alteration of Wetlands).
W77-08388 1017 6E

Wetlands Protection Under the Corps of Engineer's New Dredge and Fill Jurisdiction,
W77-08977 1018 5G

Wetlands-Related Legislation in the United States,
W77-09324 1019 6E

Hydrology of Two Small Wetland Basins in Eastern Massachusetts,
W77-09336 1019 2A

The Use of Wetlands as Nutrient Removal Systems,
W77-09520 1019 5G

New Roles For the Old Dam Builders,
W77-09552 1019 6F

State V Lang (Defining Tidal Wetland Property).
W77-09583 1019 6E

Removal of Nutrients from Treated Municipal Waste Water by Wetland Vegetation,
W77-09916 1020 5D

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

Wetlands Regulation: The Taking Problem and Private Property Interests,
W77-10461 1021 6E

Waters of the United States: Does Federal Control Inundate the Wetland (Comment on US V Holland),
W77-10463 1021 6E

Impact of Dredging in the Tampa Bay Estuary, 1976-1976,
W77-11024 1022 5C

Coastal Zone Management: A Lawyer's Perspective,
W77-11028 1022 6E

WETLANDS

The Role of Government in Real Estate Development,
W77-11029 1022 6E

Hydrocarbon Stress in Coastal Wetlands,
W77-11031 1022 5G

Impact of the Marsh Buggy on the Wetlands,
W77-11035 1022 4C

Changes in Marsh Environments Through Canalization,
W77-11036 1022 5C

Information, Criteria, and Guidelines to Improve Coastal Wetland Management,
W77-11043 1022 6G

Environmental Implications of Man-Made Linear Elements in Coastal Wetlands,
W77-11044 1022 6G

Florida Environmental Permitting and Wetlands Protection Act (Proposed Legislation).
W77-11177 1022 6E

Using Wetlands for Wastewater Treatment.
W77-11700 1023 5D

Final Environmental Impact Statement: Auburn Interceptor (Green River Sewerage Area), King County, Washington.
W77-11861 1023 5D

Comparative Utility of LANDSAT-1 and Skylab Data for Coastal Wetland Mapping and Ecological Studies,
W77-11874 1023 7B

Automatic Categorization of Land-Water Cover Types of the Green Swamp, Florida, Using Skylab Multispectral Scanner (S-192) Data,
W77-11875 1023 7B

Final Environmental Impact Statement Proposed Estuarine Sanctuary Grant Award for Rookery Bay, Collier County, Florida to State of Florida.
W77-12957 1024 2L

WETLANDS DELINEATION

Evaluation of Freshwater Wetlands Definitions,
W77-10267 1021 2H

WETTABILITY

The Influence of Soil Conditioners on the Liquid-Solid Contact Angles of Sands and Silt Loams,
W77-03626 1008 2G

Wettability of Coal-Mine Spoils in Northwestern New Mexico,
W77-09041 1018 5G

WETTING

Pore Volume Distribution and Curve of Water Content Versus Suction of Porous Body: 2. The Boundary Wetting Curve,
W77-00162 1001 2G

Influence of Hysteresis on Moisture Flow in an Undisturbed Soil Monolith,
W77-01323 1003 2G

Theoretical Analysis of Wetting Front Instability in Soils,
W77-04768 1010 2G

An Ultrasonic Nebulization Technique for Adding Aqueous Solutions Uniformly to Dry Soils,
W77-11616 1023 2G

WETTING AGENTS

Determination of Alkyl Benzenesulfonate in Water by U.V. Method,
W77-06498 1013 5A

WETTING FRONTS

Theoretical Analysis of Wetting Front Instability in Soils,
W77-04768 1010 2G

Experimental Studies of Wetting Front Instability Induced by Gradual Change of Pressure Gradient and by Heterogeneous Porous Media,
W77-11233 1022 2G

WHALES

Chlorinated Hydrocarbons in Cetaceans,
W77-03033 1006 5A

WHEAT

Variations in the Natural Abundance of N of Wheat Plants in Relation to Fertilizer Nitrogen Applications,
W77-00292 1001 3F

A Water Balance Model and Supply Index for Wheat in South Australia,
W77-00444 1001 3F

Thermal Disturbances of Wheat Water Metabolism in Models of Natural Meteorological Complexes, (In Russian),
W77-00755 1002 3F

Production Investigations in Irrigated and Non-Irrigated Winter Wheat Stand During the Growing Season, (In Hungarian),
W77-00963 1002 3F

Effect of Soil Moisture on Delivery of Nitrogen-15 to Winter Wheat Plants, (In Russian),
W77-01035 1002 2G

Response of Wheat Under Sub-Humid Irrigated Conditions to Atmospheric Misting During Grain Filling,
W77-01284 1003 3F

Effect of Soil Cultivation, Fertilizers and Preceding Crops on the Accumulation, Retention and Consumption of Moisture by Soil and Winter Wheat Plants, (In Russian),
W77-01736 1004 3F

Utilization of Nutrients from Wastewater by Wheat,
W77-02112 1005 5D

Influence of Different Water Regimes on Oxygen Diffusion Rates, Nutrient Uptake, Growth and Yield of Wheat,
W77-02177 1005 3F

Comparison of Irrigation Schedules Based on Pan Evaporation and Growth Stages in Winter Wheat,
W77-02857 1006 3F

Consumption Use and Water Requirement of Dwarf Wheat in Light Texture Soils of Rajasthan,
W77-02860 1006 3F

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Metabolism of Protein and Nucleic Acids During Adaptation to Various Types of Drought, (In Russian),
W77-02926 1006 3F

Combined Effects of Low Oxygen and Salinity on Germination of a Semi-Dwarf Mexican Wheat,
W77-03068 1006 3C

Drought Effect on the Optical Properties of Winter Wheat Leaves, (In Ukranian),
W77-04916 1010 2I

Content of Free Amino Acids in Irrigated and Unirrigated Typical Sierozem Soils, (In Russian),
W77-05045 1010 2G

Water Use and Productivity of Wheat Under Five Irrigation Treatments,
W77-05221 1011 3F

Effect of Genotype and Rainfall on Yield and Quality of Forage Barley and Wheat Varieties in a Semi-Arid Region,
W77-06234 1013 3F

Yield and Nitrogen Utilization by Wheat in Relation to Moisture and Fertility Levels,
W77-06241 1013 3F

Scheduling Irrigation for Wheat Crop in Light Soils of Rajasthan,
W77-06243 1013 3F

Dependence of Water Absorption by the Cell Walls of Plant Leaves on the Volume of the Free Space, (In Russian),
W77-06827 1014 2I

Land Application of Sewage Sludge: IV. Wheat Growth, N Content, N Fertilizer Value, and N Use Efficiency as Influenced by Sewage Sludge and Wood Waste Mixtures,
W77-07079 1014 5D

Effect of Water Deficiency on the Growth Rate of Some Winter Soft Wheat Cultivars, (In Bulgarian),
W77-08716 1018 3F

Effects of Treated Municipal Wastewater and Commercial Fertilizer on Growth, Fiber, Acid-Soluble Nucleotides, Protein and Amino Acid Content in Wheat Hay,
W77-08876 1018 5C

Evaluation of Wheat Plants with Regard to Drought- and Heat-Resistance Under Field Conditions, (In Russian),
W77-08877 1018 3F

Soil Water-Root Relations in Wheat: Water Extraction Rate of Wheat Roots that Developed Under Dry and Moist Conditions,
W77-09300 1019 2I

Stand Establishment of Wheat Lines Under Different Levels of Water Potential,
W77-09304 1019 3F

Effects of Drought and Salinity on Some Growth Contributing Parameters in Wheat and Barley,
W77-09312 1019 3C

Secondary Autumn Shoot Formation in Spring Wheat: I. The Role of Drought Damage and Developmental Stages, (In Russian),
W77-09545 1019 2I

Effects of Boron and Nitrogen on Grain Yield and Boron and Nitrogen Concentrations of Barley and Wheat,
W77-09655 1020 3F

Crop Temperature Modification and Yield Potential in a Dwarf Spring Wheat,
W77-09939 1020 3F

Interrelationships of Seedling Vigor Criteria of Wheat Under Different Field Situations and Soil Water Potentials,
W77-11088 1022 3F

Chemical Composition and Nutrient Uptake of Wheat Varieties as Influenced by Moisture Regimes,
W77-11092 1022 3F

Response of Dryland Wheat to Phosphorus Fertilizer as Influenced by Profile Water Storage and Rainfall,
W77-11093 1022 3F

Water Stress and Phenology in Wheat,
W77-11427 1022 3F

Loss of Moisture in Wheat and Rice Grown Under Field Conditions, and Its Effect on Machine Operation,
W77-11435 1022 3F

Salt and Sodium Affected Soils in Relation to Nitrogen Utilization by Wheat,
W77-11623 1023 3C

Salinity Effects on Nitrogen Use by Wheat Cultivar Sonora,
W77-11946 1023 3F

Water Transport in Wheat Plants in the Field,
W77-11949 1023 3F

Nitrification Inhibitor with Fall-Applied vs. Split Nitrogen Applications for Winter Wheat,
W77-11957 1023 3F

Note on Divergence in Some Varieties of Wheat Grown Under Rain-Fed Condition,
W77-12004 1023 3F

Nitrogen Availability to Wheat as Affected by Depth of Nitrogen Placement,
W77-12130 1023 3F

Soil Water Depletion--Yield Relationships of Irrigated Sorghum, Wheat, and Soybeans,
W77-12137 1023 3F

Field Studies of the Conductance of Wheat Leaves and Transpiration,
W77-12175 1023 3F

Subsoil Chiseling and Slip Plowing Effects on Soil Properties and Wheat Grown on a Stratified Fine Sandy Soil,
W77-12178 1023 2G

Effect of Water Stress on 14CO2 Fixation and Translocation in Wheat During Grain Filling,
W77-12289 1024 3F

WHEATGRASSES

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

Rates of Photosynthesis and Transpiration and Diffusive Resistance of Six Grasses Grown under Controlled Conditions,
W77-03142 1007 2D

WHETSTONE BROOK (VT)

An Analysis of Alternative Flood Management Plans in Upstream Watersheds. Connecticut River Basin Supplemental Flood Management Study, Phase 2,
W77-07632 1016 6F

WHEY

Benefits of Spreading Whey on Agricultural Land,
W77-06215 1013 5D

WHITE AMUR FISH

Askew V Game and Fresh Water Fish Commission (Pollution Abatement Efforts Held Constitutional).
W77-04379 1009 6E

WHITE BASS

Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

WHITE BREAM

Effectiveness of Spawning of the White Bream Blicca Bjoerkna (L.) and Roach Rutilus Rutilus (L.) in the Upper Part of the Kuibyshev Reservoir, (In Russian),
W77-04580 1009 2H

WHITE CRAPPIE

Growth of the White Crappie on a Reservoir Receiving a Thermal Discharge: Thomas Hill, Missouri,
W77-05732 1012 5C

WHITE MOUNTAINS

Snow Survey from Space, with Emphasis on the Results of the Analysis of Skylab EREP S192 Multispectral Scanner Data,
W77-08082 1016 7B

WHITE MOUNTAINS AREA (ARIZ)

A Comparative Water Quality Analysis of Selected Recreation Lakes and Streams in the White Mountains of Arizona,
W77-02866 1006 5B

WHITE PERCH

Effect of Shear on Eggs and Larvae of Striped Bass, Morone Saxatilis, and White Perch, M. Americana,
W77-02714 1006 5C

Reproduction of White Perch in the Lower Hudson River,
W77-03058 1006 2L

Behavioral Avoidance Responses of Estuarine Fishes to Chlorine,
W77-11244 1022 5C

WHITE RIVER (IN)

Flood Plain Information: White River - Killbuck Creek, Madison County and Anderson, Indiana,
W77-06589 1013 4A

WHITE RIVER (IND)

Stochastic Difference Equation Modelling of Hydrological Processes,
W77-07663 1016 2E

WHITE SANDS MISSILE RANGE (N MEX)

Annual Water-Resources Review White Sands Missile Range, 1976 - A Basic-Data Report,
W77-10005 1020 4B

WHITE SEA (USSR)

Reactions of White Sea Organisms to a Decrease of Salinity in Connection with Freshwater Discharge into Bays, (In Russian),
W77-02233 1005 2L

Bloodsucking Mosquitoes (Diptera, Culicidae) of the White Sea Coast: III. Breeding Places of Mosquitoes of the Genus Aedes, (In Russian),
W77-02699 1006 5G

WHITE SHRIMP

Effect of Mercury on the Survival, Respiration, and Growth of Postlarval White Shrimp, Penaeus setiferus,
W77-07114 1015 5C

WHITE SUCKER

White Sucker (Catostomus commersoni) Embryo Development, and Early Growth and Survival at Different Temperatures,
W77-12030 1023 5C

Effects of Diseases and Parasites on Fish Populations of the Upper Shetucket River Watershed,
W77-12258 1024 5C

WHITE SUCKERS

Egg and Larval Survival of White Suckers (Catostomus Commersoni) at Low pH,
W77-07184 1015 5C

Influence of Water Temperature on the Growth Rate of the Landlocked Sea Lamprey (Petromyzon marinus) and the Associated Rate of Host Mortality,
W77-12028 1023 5C

WHITE-TAILED DEER

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-06280 1013 5C

Microbiological Study of Faunal Response to Spray Irrigation of Chlorinated Sewage Effluent,
W77-09270 1019 5C

WHITE TAILED EAGLE

Chlorinated Hydrocarbons and Total Mercury in the Prey of the White-Tailed Eagle (Haliaeetus Albicilla L.) in the Quarken Straits of the Gulf of Bothnia, Finland,
W77-05875 1012 5C

WHITE WATER (PAPER MACHINES)

Paper Chemical Reclamation and Reuse Via Reverse Osmosis,
W77-00340 1001 5D

Introduction of a New Effluent Purification System (Vnedrenie novoi skhemy ochistki stokov),
W77-01644 1004 5D

Characteristics of a Fluidized Bed and its Effect on the Course of the Flotation Process (Kharakteristika pennogo sloya i ego vliyanie na khod flotatsionnogo protsessa),
W77-12355 1024 5D

WHITE WINGED SCOTER

Levels of PCB and Trace Metals in Waterfowl in New York State,
W77-04336 1009 5A

WHITECOURT AREA (ALBERTA)

Hydrogeology of the Whitecourt Area, Alberta,
W77-11589 1023 2F

WHITEFISH

Fecundity of Nelmuschka Coregonus Lavaretus Nelmuschka Pravdin and Its Ecological Background, (In Russian),
W77-00518 1001 2H

WHITEFISH

Lake Whitefish (Corregonus Clupeaformis (Mitchill) in Southern Indian Lake, Manitoba,
W77-02821 1006 2H

WHITEWATER CHANNELS
Model Studies of Denver Whitewater Channel,
W77-10304 1021 8B

WHITING
Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

WHOLE CORE PERMEAMETER
The Simulation of Whole Core Permeameter Flow Geometry,
W77-05933 1012 2F

WICHITA FALLS (TX)
Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

WICHITA RIVER (TX)
Flood Plain Information: Wichita River and Tributaries, Wichita Falls, Texas,
W77-07643 1016 4A

WICOMICO RIVER (MD)
Department of Natural Resources V Eldridge R. France (Establishment of County Boundary as Thalweg Instead of Geographic Center of River).
W77-01110 1003 6E

WIDTH
Variation of Width and Discharge for Natural High-Gradient Stream Channels,
W77-10009 1020 2E

The Plan Shape of Current Ripples in Relation to Flow Conditions,
W77-10132 1021 2J

WILCOX GROUP
The Meridian-Upper Wilcox Aquifer in Mississippi,
W77-02310 1005 7C

WILD AND SCENIC RIVERS (IDAHO)
Developing Criteria to Classify Wild and Scenic Rivers,
W77-04995 1010 6B

WILD LANDS
A Computerized System for Wild Land Use Planning and Environmental Impact Assessment,
W77-00119 1001 6G

WILD RIVERS
Developing Criteria to Classify Wild and Scenic Rivers,
W77-04995 1010 6B

State of North Carolina V Federal Power Commission (Rivers Designated for Potential Addition to the System Under the Wild and Scenic Rivers Act).
W77-06069 1012 6E

Scenic Waterways (Designation, Acquisition, and Protection).
W77-10496 1021 6E

Wild Rivers Flowing Free.
W77-11161 1022 6E

WILD RIVERS ACT
Developing Criteria to Classify Wild and Scenic Rivers,
W77-04995 1010 6B

WILDCAT CREEK (IN)
Flood Plain Information: Wildcat Creek and Kokomo Creek, Vicinity of Kokomo, Howard County, Indiana.
W77-03182 1007 4A

WILDERNESS AREAS
Scheduling Models for Wilderness Recreation.
W77-07541 1015 6B

WILDERNESS PRESERVATION
Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

WILDLAND FUELS
Mapping of the Wildland Fuel Characteristics of the Santa Monica Mountains of Southern California,
W77-08419 1017 7C

WILDLIFE
Concerns of the U.S. Fish and Wildlife Service in Multi-Objective Planning,
W77-01160 1003 6B

Environmental Poisons.
W77-01547 1003 5C

Research Needs for the Lake Tahoe Basin,
W77-01693 1004 6G

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

The Effects of Freshwater Withdrawals on Fish and Wildlife Resources,
W77-02655 1006 5G

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Impacts of Construction Activities in Wetlands of the United States,
W77-03007 1006 5C

Multiple Use in the Southern Coastal Plains in the United States,
W77-03173 1007 4C

Colonial Auks and Eiders as Potential Indicators of Oil Pollution,
W77-04029 1008 5A

The Gallatin Area; A Summary Report,
W77-05295 1011 6B

An Overview of Coastal Georgia Wildlife,
W77-05396 1011 2L

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Direct and Indirect Effects of Oil on Ringed Seals (Phoca Hispida) of the Beaufort Sea,
W77-06267 1013 5C

Mercury in Waterfowl from Eastern Canada,
W77-06463 1013 5A

The Status of Brown Pelicans at Anacapa Island in 1975,
W77-06465 1013 5C

The Mammalian and Fish Fauna of the Nature Preserve of Martely, (In Hungarian),
W77-06838 1014 6G

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Organochlorine Residues in New Zealand Birds and Mammals 2. Polychlorinated Biphenyls,
W77-08210 1017 5C

Population Response and Heavy Metal Concentrations in Cottontail Rabbits and Small Mammals in Wastewater Irrigated Habitats,
W77-09097 1018 5B

Deer Habitat Response to Irrigation with Municipal Wastewater,
W77-09099 1018 5C

Waterfowl Refuge Effect on Water Quality: II. Chemical and Physical Parameters,
W77-12148 1023 5A

Organism and Environment on Polluted Beaches: A Canonical Correlation Analysis,
W77-12637 1024 5C

WILDLIFE CONSERVATION
Protection of Aquatic Wildlife.
W77-00992 1002 6E

The California State Water Project in 1975, Appendix D. Costs of Recreation and Fish and Wildlife Enhancement.
W77-06361 1013 6C

Scientific and Scenic Rivers Act: Commentary and Model Statute,
W77-07231 1015 6G

Alteration of Channel of Streams (Permit System).
W77-09575 1019 6E

Tocks Island Deauthorization (Hearings on S 3106, Which Would Deauthorize Tocks Island Reservoir Project from Participation in the Delaware River Basin Project).
W77-11448 1022 6E

WILDLIFE HABITATS
Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

Trap Responses of the Gray Squirrel (Sciurus carolinensis carolinensis), Raccoon (PRocyon lotor lotor), and Opossum (Didelphis virginiana virginiana) to Environmental Factors in Two Swamp Watersheds of Northeastern North Carolina,
W77-08936 1018 6G

Changes in the Habitat Conditions of Animals in the Volga Delta Associated with the Implementation of the Volgograd Hydroelectric Station, (In Russian),
W77-09102 1019 6G

WILDLIFE MANAGEMENT
Multiple Use in Southern Appalachian Hardwoods--A 10-Year Case History,
W77-05112 1011 4A

Development of an Areal Management Concept for Gulf Penaeid Shrimp,
W77-11124 1022 2L

Agricultural Drainage Water as a Basis for Wildlife Development in the San Joaquin Valley of California,
W77-11407 1022 3F

WILLAMETTE BASIN (ORE)
Measurement of Environmental Trade-Offs and Public Policy: A Case Study,
W77-06002 1012 6G

WILLAMETTE RIVER BASIN
Methodology for River-Quality Assessment with Application to the Willamette River Basin, Oregon,
W77-10565 1021 7A

WILLAMETTE RIVER BASIN (OR)
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Willamette Drainage Basin,
W77-05299 1011 2G

WILLAMETTE RIVER BASIN (OREG)
Reservoir-System Model for the Willamette River Basin, Oregon,
W77-03891 1008 2E

River-Quality Assessments,
W77-11379 1022 5B

WILLAMETTE RIVER DISCHARGES (ORE)
Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

WILLAMETTE RIVER (ORE)
Restoring the Willamette River: Costs and Impacts of Water Quality Control,
W77-09455 1019 5G

WILLAMETTE RIVER (OREG)
Project Development and Data Programs for Assessing the Quality of the Willamette River, Oregon,
W77-02301 1005 2E

WILLAMETTE RIVER (OREGON)
Planning Implications of Dissolved Oxygen Depletion in the Willamette River, Oregon,
W77-09160 1019 5B

WILLARD MARSH (OHIO)
Ochre and Subsurface Drainage in Cultivated Organic Soils of Willard Marsh, Ohio,
W77-11797 1023 2J

WILLIAMS LAKE BASIN (WASH)
Hydrology of Three Recreational Lakes in Eastern Washington State,
W77-08608 1018 5B

WILLIAMS LAKE (WASH)
Investigation to Determine Extent and Nature of Non-Point Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, (Part I and Part II),
W77-04103 1009 5B

WILLIMANTIC RIVER (CONN)
Willimantic River Organisms Grown in Media with Natural Substrate Levels as Inocula for Algal Assays,
W77-09091 1018 5C

WILLIMANTIC/SHETUCKET RIVERS (CONN)
Effects of Primary Sewage Effluent from the City of Willimantic on the Benthic Invertebrate Fauna of the Willimantic/Shetucket Rivers,
W77-09093 1018 5C

The Effect of Secondarily Treated Sewage on the Algal Populations of the Willimantic/Shetucket Rivers,
W77-09096 1018 5C

WILLOW RIVER (WI)
Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

WILLOW TREES
Growth and Water Economy of the Tree Species Alnus and Salix, (In German),
W77-09233 1019 2I

WILMINGTON CANYON
Large Sand Waves on the Atlantic Outer Continental Shelf Around Wilmington Canyon, Off Eastern United States,
W77-03332 1007 2L

WILMINGTON (NC)
Physical, Chemical, and Biological Aspects of Subsurface Organic Waste Injection Near Wilmington, North Carolina,
W77-05739 1012 5B

WILROADS GARDENS (KS)
Special Flood Hazard Information: Arkansas River, Fort Dodge - Wilroads Gardens, Vicinity of Dodge City, Kansas.
W77-08612 1018 4A

WILSON COVE (CALIF)
Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island,
W77-10512 1021 5C

WILTING
Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

Soil Water Availability in an Arizona Mixed Conifer Clearcutting,
W77-05121 1011 4D

WILTING POINT
Abscisic Acid Level in Tomato Leaves After a Long Period of Wilting,
W77-01906 1004 2I

Anomalous Water Relations in Copper-Deficient Wheat Plants,
W77-02861 1006 2I

WIND DIRECTION
Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

WIND DRIVEN CURRENTS
Formulas Used to Analyze Wind-Driven Currents as First-Order Autoregressive Processes,
W77-02670 1006 2L

Distribution of Wind-Driven Currents in Bodies of Water and Estimation of the Transport of Water by them,
W77-06306 1013 2H

WIND EFFECTS
Sorbent System Development for Oil Spill Cleanup,
W77-00233 1001 5G

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

WIND EFFECTS (IRRIGATION)
Wind Effects on Water Application Patterns from a Large, Single Nozzle Sprinkler,
W77-10167 1021 3F

WIND EROSION
Engineering Study and Field Demonstration Trials for Sand Dune Stabilization,
W77-00032 1001 5E

Wind Erosion of Sand and Measures for Reclamation in the Zone of the Kara Kum Canal, (In Russian),
W77-00970 1002 4D

Dust Storms,
W77-01895 1004 2B

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

Computing Eolian Sand Transport from Routine Weather Data,
W77-06669 1014 2L

Data Concerning the Natural Conditions and the Soil of Dabuleni-Potelu-Corabia Station for Improvement of Soil Water Resources,
W77-11981 1023 2G

Transient Wind Erosion: A Study of the Nonstationary Effect on Rate of Wind Erosion,
W77-12552 1024 2J

WIND EROSION (SOILS)
The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

WIND-GENERATED WAVES
Observations of Wind-Generated Waves on Variable Current,
W77-06896 1014 2L

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

WIND PRESSURE
Recent Measurements of Wind Stress on Arctic Sea Ice,
W77-03980 1008 2C

Tide and Fair-Weather Wind Effects in a Bar-Built Louisiana Estuary,
W77-11904 1023 2L

Wind Stress on the Ocean Over the Eastern Continental Shelf of North America,
W77-12551 1024 2L

WIND RIPPLES
Effect of Slope on the Threshold of Motion and Its Application to Orientation of Wind Ripples,
W77-09955 1020 2J

WIND RIVER MOUNTAINS (WYO)
Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

WIND RIVER (WYO)
Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

WIND STRESS
Steric Contribution to the Seasonal Oscillation of Sea Level Off Oregon,
W77-03912 1008 2L

Recent Measurements of Wind Stress on Arctic Sea Ice,
W77-03980 1008 2C

A Data Integration Study of Lake Onraria for the Episode July 19 - August 2, 1972, Part I,
W77-05125 1011 2H

A Data Integration Study of Lake Ontario for the Episode July 19 - August 2, 1972. Part II,
W77-05126 1011 2H

Harbor and Nearshore Currents, Oswego Harbor, New York,
W77-08913 1018 2L

Wind Stress on the Ocean Over the Eastern Continental Shelf of North America,
W77-12551 1024 2L

WIND TIDES

On the Reliability of the Spectral Method for the Design of Offshore Structures,
W77-02129 1005 8B

WIND TUNNELS

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

WIND VELOCITY

An Evaporation Equation for an Open Body of Water Exposed to the Atmosphere,
W77-01338 1003 2D

Estimation of Winds Over the Great Lakes,
W77-02944 1006 2H

Experimental Study of Wind Effects on Reaeration,
W77-06520 1013 2L

Drift Velocities of Surface Films Over Waves,
W77-08193 1017 5B

Operating Large Traveling 'Gun' Sprinklers in Winds,
W77-12511 1024 3F

Tracer Measurement of River Evaporation: Laboratory Study,
W77-12771 1024 2D

WINDBREAKS

Influence of Tall Wheatgrass Wind Barriers on Soil Drying,
W77-02168 1005 4D

WINDERMERE (ENGLAND)

Geothermal Gradients in British Lake Sediments,
W77-12558 1024 2J

WINDMILLS

Today's Windmills: A Blend of Old and New,
W77-08650 1018 8C

WINDS

Wave Prediction for the East Coast of India Under Storm Conditions in the Bay of Bengal,
W77-01124 1003 2L

Summertime Radar Echo Distributions of Moist Convection over Southern Nevada and Adjacent Areas for 1971 and 1972,
W77-01702 1004 2B

The Nontidal Flow in the Providence River of Narragansett Bay: A Stochastic Approach to Estuarine Circulation,
W77-01926 1004 2L

Spectral Characteristics of the Microwave Emission from a Wind-Driven Foam-Covered Sea,
W77-02476 1005 2L

Probabilistic Trajectory Assessments for Offshore Oil Spills Impacting Long Island,
W77-02689 1006 5B

Electronic Sensor for Low-to-Medium Windspeeds,
W77-03099 1007 7B

Wind-Induced Water Level Oscillations in Shallow Lagoons,
W77-03287 1007 2H

The Organic Component of Wind-Blown Soil Aerosol as a Function of Wind Velocity,
W77-03763 1008 2G

Mixing of Submerged Two-Dimensional Buoyant Jets in Uniform Bodies of Water in the Absence and Presence of Wind Action,
W77-03828 1008 8B

Recent Measurements of Wind Stress on Arctic Sea Ice,
W77-03980 1008 2C

A Method for the Automatic Measurement of Wave Frequency,
W77-03981 1008 2L

Spectra and Coherence of Wind-Generated Internal Waves,
W77-03982 1008 2L

Description of Wind, Current, and Bottom Pressure Variations on the Continental Shelf in the Northeast Gulf of Alaska from February to May 1975,
W77-05154 1011 2L

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Rederivation of the Saturation Range in the Frequency Spectrum of Wind-Generated Gravity Waves,
W77-05802 1012 2L

Intermittent 'Full' Upwelling in Lake Ontario,
W77-05973 1012 2H

Some Statistical Properties of Wind Waves in La Cygne Lake,
W77-06009 1012 2H

Distribution of Wind-Driven Currents in Bodies of Water and Estimation of the Transport of Water by them,
W77-06306 1013 2H

A Study to Forecast the Waves at Digha,
W77-06648 1014 2L

The Use of Remote Sensing to Detect How Wind Influences Planktonic Blue-Green Algal Distribution,
W77-06697 1014 5C

Observations of Wind-Generated Waves on Variable Current,
W77-06896 1014 2L

Numerical Models of Wind-Driven Circulation in Lakes,
W77-06958 1014 2H

Transports in Lake Superior,
W77-07176 1015 5B

Brace Research Institute, Annual Report, (1976),
W77-07242 1015 3A

Wind and Current Patterns in an Arctic Coast Lagoon,
W77-07323 1015 2L

The Scaling of Velocity Fluctuations in the Surface Mixed Layer,
W77-07768 1016 2L

Ice Movements in the Beaufort Sea 1973-1975: Determination by ERTS Imagery,
W77-07769 1016 2C

Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves,
W77-07771 1016 2L

Lake Erie International Jetport Model Feasibility Investigation; The Wind-Driven Currents and Contaminant Dispersion in the Near-Shore of Large Lakes,
W77-08220 1017 5B

Estimation of Winds Over the Great Lakes,
W77-09022 1018 2H

The Effect of Wind on the Distribution of Chlorophyll A and Crustacean Plankton in a Shallow Eutrophic Reservoir,
W77-09679 1020 5B

The Sea Surface Temperature Deviation at Very Low Speeds; Is There a Limit,
W77-10120 1021 2L

Wind-Forced Continental Shelf Waves in the Florida Current,
W77-10780 1021 2L

A Study of Wind, Waves and Currents in Simpson Lagoon,
W77-10895 1022 2L

On the Variability of Surface Tension with Mean Wind Speed,
W77-11807 1023 2L

A Simple Model of Lake Ontario's Coastal Boundary Layer,
W77-11811 1023 2H

Concentration Pattern of Chemical Constituents in a Paper Mill's Effluent Plume: Dynamics and Model,
W77-12041 1023 5B

Near-Bottom Cross-Shelf Currents in the Northwestern Gulf of Mexico: A Response to Wind Forcing,
W77-12302 1024 2L

Saginaw Bay Water Circulation,
W77-12326 1024 2H

Prediction of Littoral Drift for Lakes and Bays from Wind Observations,
W77-12958 1024 2J

WINDSPEED SENSORS

Electronic Sensor for Low-to-Medium Windspeeds,
W77-03099 1007 7B

WINDWARD DRIFT

Saginaw Bay Water Circulation,
W77-12326 1024 2H

WINE DISTILLERY EFFLUENTS

Purification of Wine Distillery Effluents (Epuration Des Effluents De Distilleries Vinicoles),
W77-03606 1008 5D

WINKLER TEST

Chemical Catalyst Interference in the Winkler Titration Determination of Dissolved Oxygen -- A Method for Correction,
W77-02564 1005 5A

WINNEBAGO RIVER (IA)
Winnebago River and Tributaries, Flood Plain Information, Forest City, Iowa.
W77-10911 1022 4A

WINNIPEG (CANADA)
The Chemical Characteristics of the City of Winnipeg Waste Water,
W77-07047 1014 5A

WINTER
Shelters Boost Winter Treatment Efficiencies,
W77-03432 1007 5D

Augmentation of 1968-1972 Winter Storms in New Mexico,
W77-03838 1008 3B

On the Possibility of Acclimatization of Tilapia Nilotica to Low Water Temperature Condition, (In Japanese),
W77-06033 1012 2I

The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

The Winter Dark Survival of an Algal Flagellate--Cryptomonas Erosa (Skuja),
W77-09482 1019 5C

Winter and Summer Insolation Patterns for Southern Africa,
W77-10195 1021 2B

WINTER CIRCULATION
The Observed Winter Circulation of Lake Ontario,
W77-06655 1014 2H

WINTER OROGRAPHIC SNOWPACK AUGMENTATION
Water Resource Augmentation in the Southwest.
W77-00546 1002 3B

WINTER STORMS
Weather Modification Design Study for Streamflow Augmentation in the Northern Sierra Nevada, Executive Summary,
W77-03212 1007 3B

WINTER WHEAT
Drought Effect on the Optical Properties of Winter Wheat Leaves, (In Ukranian),
W77-04916 1010 2I

WINTERGREEN LAKE (MICH)
Annual Contribution of Carbon, Nitrogen and Phosphorus by Migrant Canada Geese to a Hardwater Lake,
W77-07505 1015 5C

WINTERS DOCTRINE
The Winters Doctrine and How It Grew: Federal Reservation of Rights to Use of Water,
W77-08375 1017 6E

Indian Water Rights.
W77-11447 1022 6E

The Winters Doctrine: Seventy Years of Application of 'Reserved' Water Rights to Indian Reservations,
W77-11787 1023 6E

WIRE ROPE
Lubricating Wire Rope.
W77-04129 1009 8G

Make Wire Rope Last-Treat it Like a Machine,
W77-06857 1014 8G

WISCONSIN
Environmental Impact of Cadmium and Other Heavy Metals from Land-Applied Sewage Sludge,
W77-00002 1001 5C

A Case Study of Citizen Participation in Resource Planning: The Crawford County Critical Resource Information Workshop.
W77-00171 1001 6B

Drain Oil Disposal in Wisconsin,
W77-00209 1001 5G

State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

Surface Normal Modes of Lake Michigan: Calculations Compared with Spectra of Observed Water Level Fluctuations,
W77-00655 1002 2H

Sedimentation in Birch Lake, Iowa County, Wisconsin,
W77-00785 1002 2J

Sediment Yield from Steep Lands in the Driftless Area,
W77-00786 1002 2J

Sedimentation in Coon Creek Valley, Wisconsin,
W77-00835 1002 4D

Sediment Dispersal in Western Lake Michigan Near Two Creeks, Wisconsin, and the Influence of an Industrial Cooling Water Discharge,
W77-00841 1002 2J

Institutional Arrangements for Lake Management in Wisconsin,
W77-00966 1002 6E

Navigable Waters Protection Law.
W77-01009 1002 6E

Waters--Fish and Game--Deposit of Pesticides in Public Waters.
W77-01042 1002 6E

Shoreland Regulation in Wisconsin,
W77-01087 1003 6E

Lower Green Bay. An Evaluation of Existing and Historical Conditions,
W77-01287 1003 5C

Pollution Abatement in Wisconsin, Historical Development and Present Status,
W77-01524 1003 5G

Animal Waste Problems Now Facing the Department of Natural Resources,
W77-01525 1003 5G

Proposed Animal Waste Regulations for Wisconsin,
W77-01526 1003 5G

Department of Natural Resources Proposed Animal Waste Management Rules.
W77-01527 1003 5G

How Now Brown Cow: Regulation of Feedlot Pollution in Wisconsin,
W77-01549 1003 5G

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-01810 1004 5G

Ground-Water Resources and Geology of St. Croix County, Wisconsin,
W77-02321 1005 4B

Scanning Thermal Plumes,
W77-02682 1006 5A

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Distribution and Feeding of Pumpkinseed (Lepomis gibbosus) and Black Crappie (Pomoxis nigromaculatus) in a power plant cooling lake,
W77-03078 1007 5C

Organic Phosphorus in Lakes,
W77-03210 1007 5C

Probable Maximum Flood at Lake Chippewa near Winter, Wisconsin,
W77-03349 1007 4A

Public Inland Lake Protection and Rehabilitation.
W77-03510 1007 6E

Great Lakes Compact Commission.
W77-03513 1007 6E

Waste-Assimilation Study of Koshkonong Creek Below Sewage-Treatment Plant at Sun Prairie, Wisconsin,
W77-03876 1008 5B

Ground-Water Resources and Geology of Jefferson County, Wisconsin,
W77-03889 1008 4B

The Effect of Salt on Small, Artificial Lakes,
W77-04896 1010 5A

Prediction of Sediment Yields in Wisconsin Streams,
W77-04991 1010 2J

Sewage Drains and Discharge; Refuse Disposal.
W77-05071 1010 6E

A Chemical Investigation of Phosphorus Removal in Lakes by Aluminum Hydroxide,
W77-05367 1011 5G

Water Resources of Washtenaw County, Michigan,
W77-05759 1012 6D

Nitrate and Chloride in Ground Water Under Irrigated Agriculture in Central Wisconsin,
W77-06313 1013 5B

Multivariate Empirical Test of the Leopold and Miller Stream Order-Hydraulic Geometry Hypothesis,
W77-06315 1013 2E

Field Water Balance and Simulated Water Relations of Prairie and Oak-Hickory Vegetation on Deciduous Forest Soils,
W77-06325 1013 2G

Preliminary Report on the Polychlorinated Biphenyls in the Mississippi River and Lake Pepin.
W77-06370 1013 5A

Inland Lake Demonstration Project,
W77-06599 1013 5G

A Device for Measuring Seepage Flux in Lakes and Estuaries,
W77-06903 1014 7B

Geology and Ground Water in Door County, Wisconsin, with Emphasis on Contamination Potential in the Silurian Dolomite,
W77-06975 1014 5B

Reaeration-Coefficient Measurements of 10 Small Streams in Wisconsin Using Radioactive Tracers--with a Section on the Energy-Dissipation Model.
W77-07496 1015 5A

Environmental Geologic Aspects of Planning, Constructing, and Regulating Recreational Land Developments,
W77-07630 1016 6G

Sedimentation in Lower Green Bay, Wisconsin,
W77-07980 1016 2J

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

Recreational Use of Small Streams in Wisconsin,
W77-08008 1016 5G

Simulation of Streamflow of Flambeau River at Park Falls, Wisconsin to Define Low-Flow Characteristics,
W77-08172 1017 2E

University Public Service Programs as They Relate to Water Resources Management in Wisconsin,
W77-08209 1017 6E

Classification and Test of Public Participation Concepts Applied to Local Resource Planning,
W77-08295 1017 6B

Diffuse Agricultural Pollution: The Economic Analysis of Alternative Controls,
W77-08329 1017 5B

The LANDSAT-1 Multispectral Scanner as a Tool in the Classification of Inland Lakes,
W77-08433 1017 5A

Trophic Status of Inland Lakes from LANDSAT,
W77-08434 1017 5A

Digital-Computer Model of the Sandstone Aquifer in Southeastern Wisconsin,
W77-08478 1017 2F

The Hydrogeologic Regime of Glacial-Terrain Lakes, with Management and Planning Applications,
W77-08724 1018 2F

Chippewa Flowage Investigations. Part 1: Summary Report,
W77-08725 1018 6B

Chippewa Flowage Investigations. Part 3A: Appendixes.
W77-08726 1018 6B

Chippewa Flowage Investigations. Part 3B: Appendixes.
W77-08727 1018 6B

Movement of Manurial Nitrogen in Cool, Humid Climates,
W77-08819 1018 5B

Environmental Limitations on the Microbial Degradation of Hydrocarbons in Temperate Lakes,
W77-09059 1018 5C

Total and Hypolimnetic Aeration of Lakes in Wisconsin,
W77-09495 1019 5G

Thermal Conductivity of Organic Sediments from Two Wisconsin Lakes,
W77-09521 1019 2J

Pollution of the Interstate and Intrastate Waters of the Upper Mississippi River and Its Tributaries.
W77-09529 1019 5G

Federal Common Law Under 1331(a) (Comment on Illinois V City of Milwaukee),
W77-09537 1019 6E

Wastewater Treatment by Natural and Artificial Marshes,
W77-09606 1020 5D

Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

Design for Small-Boat Harbor Improvements, Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09989 1020 8B

Igloo Wave Absorber Tests for Port Washington Harbor, Wisconsin; Hydraulic Model Investigation,
W77-09990 1020 8B

Correlation of Plant Manganese with Extractable Soil Manganese and Soil Factors,
W77-10281 1021 2G

Vandervelde V City of Green Lake (Authority of City to Require Use of City Water and Sewer Mains).
W77-10480 1021 6E

De Simone V Kramer (Artificially Created Accretion Subject to Law Concerning Natural Accretion).
W77-10487 1021 6E

A Production Model for Myriophyllum Spicatum L.,
W77-10731 1021 5C

Water Management for Shoreline Erosion Control on the Chippewa Flowage,
W77-10925 1022 4D

Hydrology of Small Watersheds in Wisconsin's Driftless Area,
W77-11209 1022 2A

Preliminary Evaluation of Water Quality of Proposed Lafarge Lake, Kickapoo River, Vernon County, Wisconsin,
W77-11584 1023 5C

Hydrologic Response and Nutrient Concentrations Following Spring Burns in an Oak-Hickory Forest,
W77-11613 1023 4C

Flood Plain Information: Willow River and Paperjack Creek, New Richmond, Wisconsin.
W77-12601 1024 4A

Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

The Response of Floods and Sediment Yields to Climatic Variation and Land Use in the Upper Mississippi Valley,
W77-12822 1024 2E

Detention Tank for Combined Sewer Overflow, Milwaukee, Wisconsin, Demonstration Project.
W77-12824 1024 5D

WISCONSIN PAPER COUNCIL
Statement Relating to Polychlorinated Biphenyls on Behalf of the Wisconsin Paper Council,
W77-00462 1001 5B

WISCONSIN RIVER (WI)
Flood Plain Information: Wisconsin River, Columbia and Sauk Counties, Wisconsin.
W77-12602 1024 4A

WISCONSIN RIVER (WISC)
State of Wisconsin Automatic Water Quality Monitoring System for the Fox and Wisconsin Rivers,
W77-00334 1001 5A

WITHDRAWAL
Alternatives in Area Management of Groundwater,
W77-01819 1004 4B

Two Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03129 1007 4A

A Perturbation Approach to Two-Dimensional Bottom Withdrawal from a Density-Stratified Reservoir,
W77-03151 1007 4A

Ground-Water Resources of the Holloman Air Force Base Well-Field Area, 1967, New Mexico,
W77-03878 1008 4B

Land Subsidence in the Santa Clara Valley, California,
W77-04992 1010 4B

Land Subsidence in the San Joaquin Valley, California,
W77-04993 1010 4B

Land-Surface Subsidence at Seabrook, Texas,
W77-05749 1012 4B

Land-Surface Subsidence in the Area of Moses Lake Near Texas City, Texas,
W77-05750 1012 4B

Economic Analysis of Alternative Groundwater Withdrawal Rates in Conjunction with Surface Water Irrigation,
W77-06740 1014 4B

Withdrawal of Certain Waters from Appropriation: Special Municipal and County Water Rights,
W77-08142 1017 6E

Selective Withdrawal and Heated Water Discharge: Influence on the Water Quality of Lakes and Reservoirs Part I - Selective Withdrawal,
W77-08447 1017 5G

Water-Level Changes in Northwestern Kansas, 1950-76,
W77-08742 1018 4B

Artificial Recharge for Subsidence Abatement at the NASA-Johnson Space Center, Phase I,
W77-08744 1018 4B

Note on Evapotranspiration by Profile-Depletion Method in Deep Vertisol,
W77-11632 1023 2D

WITHDRAWN WATERS
Withdrawal of Certain Waters from Appropriation: Special Municipal and County Water Rights,
W77-08142 1017 6E

WOLUWE RIVER VALLEY (BELGIUM)
Ecological Studies of the Brussels Urban Ecosystem: Contribution 8. First Survey of the Hydrobiology of the Woluwe Valley in Brussels, (In French),
W77-07292 1015 5C

WOLVERINE AND GULKANA GLACIERS (ALASKA)
Combined Ice and Water Balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 Hydrologic Year,
W77-08473 1017 2C

WOOD
The Removal of Acid Dye from Effluent Using Natural Absorbents-II,
W77-06228 1013 5D

WOOD EXTRACTIVES
Aqueous Leachate from Western Red Cedar: Effects on Some Aquatic Organisms,
W77-03799 1008 5C

WOOD INDUSTRY
Aerated Ponds for Final Purification of Wood Chemical Plant Effluents (Aeriruemye prudy dlya doochistki stokob lesokhimicheskikh predpriyatii),
W77-03813 1008 5D

WOOD PRESERVATIVES (PESTICIDES)
Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

Treating Wood Preserving Plant Wastewater by Chemical and Biological Methods,
W77-09759 1020 5D

WOOD PRESERVING WASTES
Treatment of Wood Preserving Wastewater,
W77-04181 1009 5D

WOOD-PROCESSING INDUSTRY
Environmental Concerns of (Swedish) Wood-Processing Industries,
W77-04828 1010 5G

WOOD PRODUCTS INDUSTRY
Wastewater Management in the Solid Wood and Board Products Industries: A Review,
W77-10690 1021 5D

WOOD PYROLYSIS
Analysis of Pollutants in Effluents of a Pyrolysis Factory (Analiz zagryaznenii stochnykh vod piroliznogo predpiyatiya),
W77-10698 1021 5A

WOOD WASTES
Hydrolysis of Press Waste Waters from the Manufacture of Fiber (Insulation) Boards (Contributii la studiul procesului de hidroliza a apelor de presa din circuitul de fabricatie al P.F.L.),
W77-00324 1001 5D

Addition of Phosphorus Salts to Effluents (Dobavlenie solei fosfora v stochnye vody),
W77-01646 1004 5D

Groundwater Pollution by Wood Waste Disposal,
W77-02591 1006 5B

Treatment of Wood Preserving Wastewater,
W77-04181 1009 5D

Purification of Waste Waters from Wet Barking (Rening av avloppsvatten fran vatbarkning),
W77-05698 1012 5D

Rosewood Polyphenols after Phenoloxidase Activity from the Mantle of the Marine Bivalve Mollusc, Modiolus Demissus Dillwyn,
W77-06292 1013 5C

Demery v Wilmar Plywood, Incorporated (Liability for Alteration of Natural Drainage Patterns).
W77-06559 1013 6E

Land Application of Sewage Sludge: IV. Wheat Growth, N Content, N Fertilizer Value, and N Use Efficiency as Influenced by Sewage Sludge and Wood Waste Mixtures,
W77-07079 1014 5D

Effluent Limitations and Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Bleached Kraft, Groundwood, Sulfite, Soda, Deink and Non-Integrated Paper Mills Segment of the Pulp, Paper, and Paperboard Point Source Category.
W77-08383 1017 5G

Effects of Log Handling and Storage on Water Quality,
W77-09760 1020 5C

Removal of Heavy Metal Ions from Waste Solutions by Contact with Agricultural Byproducts,
W77-10714 1021 5D

WOODLANDS
Streamflow Increases After Removing Woodland-Riparian Vegetation from a Southern California Watershed,
W77-05124 1011 4C

WOODS CANYON (ARIZ)
Woods Canyon--A Large Scale Watershed Management Experiment: An Explanation and Interim Report,
W77-02110 1005 3B

WOODS HOLE
Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

WOOL SCOURING EFFLUENTS
Treatment of Wool-Scouring Effluents with Inorganic Chemicals,
W77-09425 1019 5D

WORKABILITY
Oregon's Long-Range Requirements for Water. General Soil Map Report with Irrigable Areas, Owyhee Drainage Basin,
W77-06606 1014 2G

WORKMAN CREEK WATERSHED (ARIZ)
Water Yields Resulting from Treatments on the Workman Creek Experimental Watersheds in Central Arizona,
W77-01660 1004 4C

WORLD HEALTH ORGANIZATION
The World Health Organization's Environmental Health Criteria and Air Monitoring Programs,
W77-02845 1006 5G

Controlling Water Pollution,
W77-10201 1021 5G

WORMS
Revealing Cercaria of the Family Schistosomatidae in the Kiev Water Reservoir, (In Russian),
W77-00881 1002 5C

Larval Contracaecum (Nematoda, Aniskidae) in the Pericardium of Fishes from East African Lakes,
W77-01545 1003 5C

Tubificids (Oligochaeta: Tubificidae) - Indicators of the Quality of Water Bodies, (In Russian),
W77-02225 1005 5A

Toxicological Characteristics of Acute Phenol Intoxication in Some Freshwater Worms, (In Russian),
W77-02237 1005 5C

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

Some Effects of Salinity on the Toxicity of Copper to the Polycheate Nereis diversicolor,
W77-06474 1013 5C

Acute Toxicity of Inorganic Mercury to Capitella,
W77-06486 1013 5C

Helminth Fauna of Beloniform Fish, (In Russian),
W77-09403 1019 2I

The Effects of Salinity, Temperature, and Mercury on Mortality of the Trocophore Larvae of Serpula Vermicularis L. (Annelida: Polychaeta),
W77-09684 1020 5C

Evaluation of the Effectiveness of Dehelmintization of Waste Water During Mechanical Treatment at Smolensk (Otsenka effektivnosti degel' mintizatskii stochnykh vod pri mekhanicheskoi ochistke v Smolenske),
W77-10636 1021 5D

Benthic Community Structure Near the Woods Hole Sewage Outfall,
W77-11280 1022 5C

Toxicity of Water-Soluble Fractions of No. 2 Fuel Oil and South Louisiana Crude Oil to Selected Stages in the Life History of the Polychaete, Neanthes arenaceodentata,
W77-12639 1024 5C

The Exposure of Ammonia to the Photodissociated Hemoglobin of the Marine Bloodworm, Glycera Dibranchiata,
W77-12642 1024 5C

WORMS

Polychaete Species Diversity and Physical Environment of Sediment in Usu Bay, (In Japanese),
W77-12876 1024 5C

WYE AND TWEED RIVERS (UK)
Geometry of River Meanders,
W77-01340 1003 2E

WYOMING
Hydrologic Unit Map--1974, State of Wyoming.
W77-00429 1001 7C

Upper Niobrara River Compact.
W77-00988 1002 6E

Obstructing Bridges or Streams.
W77-00989 1002 6E

Garbage Pollution, Disposal into Streams.
W77-00990 1002 6E

Protection of Public Water Supply.
W77-00991 1002 6E

Watershed Improvement Districts.
W77-01000 1002 6E

The Movement of Snow-Water Through Small Plant-Soil Systems in the Medicine Bow Mountains, Wyoming,
W77-01812 1004 2D

Patterns of Leaf Resistance to Lodgepole Pine Transpiration in Wyoming,
W77-02531 1005 2D

Wildlife and Oil Shale. A Problem Analysis and Research Program.
W77-02659 1006 5G

A Benthic Survey of Flat Creek and the Salt River Near Thayne, Wyoming.
W77-02807 100[illegible] 2

Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

Permeability and Ground Water Circulation in the Madison Aquifer Along the Eastern Flank of the Bighorn Mountains of Wyoming,
W77-03122 1007 2F

Hydrologic Studies by the U.S. Geological Survey in Oil-Shale Areas of Colorado, Utah, and Wyoming, 1976.
W77-03340 1007 4B

Water Rights and Liens.
W77-03499 1007 6E

Poisoning of, and Obstruction to, Fish.
W77-03500 1007 6E

Ditch Companies.
W77-03501 1007 6E

Irrigation and Water Rights.
W77-03502 1007 6E

Control of Water and Eminent Domain.
W77-03503 1007 6E

The Wyoming Water Quality Act and the Federal Water Pollution Control Act Amendments of 1972: A Comparison,
W77-03600 1007 5G

Water Resources Data System,
W77-03728 1008 7C

The Application of HYMO to Study Areas of Southwestern Wyoming for Surface Runoff and Soil Loss Estimates,
W77-03729 1008 4A

Chemical and Physical Data for the Flaming Gorge Reservoir Area, Utah and Wyoming, 1973-75,
W77-03881 1008 7C

Preliminary Digital Model of Ground-Water Flow in the Madison Group, Poweder River Basin and Adjacent areas, Wyoming, Montana, South Dakota, North Dakota, and Nebraska,
W77-03882 1008 2F

Ground-Water Levels in Wyoming, 1975,
W77-03888 1008 4B

An Evaluation of Surface-Mine Spoils Area Restoration in Wyoming Using Rainfall Simulation,
W77-03892 1008 5B

Hydrologic Effects of Hypothetical Earthquake-Caused Floods Below Jackson Lake, Northwestern Wyoming,
W77-03895 1008 8E

Legal Problems in Changing Uses or Coordinating Uses of Keyhole Reservoir,
W77-03973 1008 6E

Water Resources of the Bighorn Basin, Northwestern Wyoming,
W77-04235 1009 7C

Water Resources of Northwestern Wyoming,
W77-04238 1009 2A

The North Platte River Basin Economic Simulation Model (A Technical Report and Supplement to the Technical Report),
W77-04601 1010 6B

A Subalpine Snowmelt Runoff Model,
W77-05000 1010 2A

Acquisition of Water Rights.
W77-05070 1010 6E

Water Chemistry of a Stream Following a Storm, Absaroka Mountains, Wyoming,
W77-05800 1012 2K

Glendo Reservoir; General Provisions.
W77-06073 1012 6E

Water Divisions and Superintendents.
W77-06576 1013 6E

Damage by Floating Timber.
W77-06577 1013 6E

Water Rights Generally.
W77-06581 1013 6E

Abandonment of Water Rights,
W77-06582 1013 6E

Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

Techniques for Estimating Flow Characteristics of Wyoming Streams,
W77-07495 1015 4A

Clastic Sedimentation in a Modern Alpine Lake,
W77-07791 1016 2J

The Use of Skylab and LANDSAT in a Geohydrological Study of the Paleozoic Section, West-Central Bighorn Mountains, Wyoming,
W77-08063 1016 7B

Operational Water Management Applications of Snowcovered Area Observations,
W77-08084 1016 7B

Snake River Land Co V State Board of Control (Beneficial Use of Water Held Sufficient Proof of Appropriation).
W77-08135 1017 6E

Bear River Compact,
W77-08155 1017 6E

Reservoirs,
W77-08158 1017 6E

Geohydrology of the Albin and La Grange Areas, Southeastern Wyoming,
W77-08176 1017 4B

Data for Calibrating Unsteady-Flow Sediment-Transport Models, East Fork River, Wyoming, 1975,
W77-08180 1017 7C

Water Districts and Commissioners.
W77-08406 1017 6E

Estimating Evapotranspiration in the North Platte Basin of Wyoming,
W77-08505 1017 2D

Inventory of Water Resources Research at the University of Wyoming, Fiscal Year 1975,
W77-08506 1017 9A

Snake River Interstate Compact.
W77-08996 1018 6E

Report on Preliminary Data for Madison Limestone Test Well No. 1, NE1/4SE1/4 Sec. 15, T. 57 N., R. 65 W., Crook County, Wyoming,
W77-09072 1018 4B

Preliminary Study of Wastewater Movement in and Near Grand Teton National Park, Wyoming, Through October 1976,
W77-09087 1018 5B

Determination of Physical and Hydraulic Preferences of Brown and Brook Trout in the Selection of Spawning Locations,
W77-09153 1019 2I

Water Resources Data For Wyoming, Water Year 1975.
W77-10002 1020 7C

Utilization of LANDSAT Monitoring Capabilities for Snowcover Depletion Analysis,
W77-10670 1021 2C

Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates,
W77-10673 1021 4A

Digital Snow Mapping Technique Using LANDSAT Data and General Electric Image 100 System,
W77-10679 1021 2C

Snake River Ranch v United States (Ownership of Land Omitted by Meander Line).
W77-11200 1022 6E

Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

Shallow Aquifers Relative to Surface Water, Lower North Platte River Valley, Wyoming,
W77-11402 1022 4B

Movement of Cobbles in a Gravel-Bed Stream During a Flood Season,
W77-12318 1024 2J

Measuring Snow Cover Using Satellite Imagery During 1973 and 1974 Melt Season: North Santiam, Boise, and Upper Snake Basins,
W77-12821 1024 2C

WYPER ARROYO (NM)
Flood Plain Information: San Juan River and Tributaries, Farmington, New Mexico.
W77-03176 1007 4A

X-RAY ANALYSIS
Energy Dispersive X-Ray Analysis (EDAX) as an Autopsy Technique for Copper-Caused Fish Mortality,
W77-01460 1003 5A

On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Microanalyse de L'Incorporation d'un Metal Lourd Dans les Ecailles d'un Poisson,
W77-03663 1008 5A

X-Ray Analysis of Shortened Backbones in Fishes: A Cod (Gadus Morhua L.) and B. Allis Shad (Alosa Alosa L.), (In German),
W77-04278 1009 5A

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

X-RAY DIFFRACTION
Crystal Structure Analysis of Selected Pesticides by Single Crystal X-Ray Diffraction: The Crystal and Molecular Structure of Padan,
W77-08503 1017 5A

Exchange and Hydration Properties of Cu(2+) on Mixed-Ion Na(+) - Cu(2+) Smectites,
W77-10276 1021 2G

X-RAY FLUORESCENCE
On the Application of Radioisotope X-Ray Fluorescence Analysis for the Solution of Environmental and Industrial Problems,
W77-03612 1008 5A

Optimization of a Simple Spotting Procedure for X-ray Fluorescence Analysis of Waters,
W77-04798 1010 5A

X-RAY SPECTROSCOPY
Direct of X-Ray Spectrometric Determination of Bromine in Water,
W77-02457 1005 5A

Correction of 'Tube Contribution' Interference in the Determination of Heavy Metals by X-Ray Spectroscopy Using the 'Additions Technique',
W77-09292 1019 5A

XAD-2 RESIN
The Use of XAD-2 Resin for the Analysis of Coprostanol in Water,
W77-03767 1008 5A

XENOBIOTICS
Aquatic Food Chain Models for Estimating Bioaccumulation and Biodegradation of Xenobiotics,
W77-03681 1008 5C

Bioconcentration of Xenobiotics in Trout Bile: A Proposed Monitoring Aid for Some Waterborne Chemicals,
W77-06294 1013 5C

XEROPHYTES
Wastewaters in the Vadose Zone of Arid Regions: Hydrologic Interactions,
W77-04754 1010 5B

XYLEM
Cavitation and Resistance to Water Flow in Plant Roots,
W77-11106 1022 2I

XYLEM REGENERATION
Ozone and Vascular Tissue Differentiation in Plants,
W77-02439 1005 5C

XYLENE
A Simple Apparatus for Metering Volatile Liquids into Water,
W77-02454 1005 7B

Residues of Emulsified Xylene in Aquatic Weed Control and Their Impact on Rainbow Trout, Salmo gairdneri,
W77-07805 1016 5G

YAHARA RIVER (WISC)
Statistical Analysis of the Impact of Ground Water Pumpage on Low-Flow Hydrology,
W77-09952 1020 4B

YAKIMA INDIAN RESERVATION
Test-Well Drilling in the Upper Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12384 1024 4B

YAKIMA INDIAN RESERVATION (WASH)
Outline of the Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-08740 1018 4B

Water Resources of the Satus Creek Basin, Yakima Indian Reservation, Washington,
W77-12383 1024 4A

YAKIMA RIVER BASIN (WASH)
Graphic Display of Water Rights and Water Resource Information for the Yakima River Basin as an Aid to Decision-Making,
W77-01808 1004 6B

Economic Impacts of Controlling Water Quality in an Irrigated River Basin,
W77-08332 1017 5G

YAKUTIA (USSR)
Some Hydrochemical Characteristics of the Mouth Reaches of the Anabar, Lena, Yana, and Indigirka Rivers,
W77-08833 1018 2L

YALAN
Data on Substantiation of the Maximum Allowable Concentration of Yalan in Water Bodies, (In Russian),
W77-04599 1009 5C

YAMPA RIVER BASIN (COLO AND WYO)
Surface-Water Quality in the Yampa River Basin, Colorado and Wyoming--An Area of Accelerated Coal Development,
W77-11366 1022 5B

YAMPA RIVER BASIN (COLO-WYO)
Coal-Resource Development Alternatives, Residuals Management, and Impacts on the Water Resources of the Yampa River Basin, Colorado and Wyoming,
W77-04994 1010 5E

YAMPA RIVER (CO)
Flood Hazard Information: Yampa River and Tributaries, Steamboat Springs, Colorado.
W77-08619 1018 4A

YARKON RIVER
Relationship Between Water Pollution and the Flora of Two Coastal Rivers of Israel,
W77-11267 1022 5C

YARRA RIVER (VIC)
Sugarloaf Creek Project (Australia): Flood Studies.
W77-01067 1003 8A

A Revised Regional Frequency Curve for the Yarra Catchment Above Warrandyte (Australia).
W77-01068 1003 4A

YBBARPSAN RIVER (SWEDEN)
Ybbarpsan-A Small Receptacle for a Large Industry: Limnological Study of the Ybbarpsan River, (In Swedish),
W77-05339 1011 5C

YEASTS
Effect of Yeast and Cobalt Chloride in Increasing Survival Rate of Hatchlings of Heteropneustes Fossils (Bloch),
W77-00632 1002 2I

Irrigation of Corn with Effluents from Fermentation and Yeast-Producing Plants (Oroshenie kukuruzy stochnymi vodami gidrolizno-drozhzhevogo proizvodstva),
W77-01645 1004 5D

Yeast Plant Wastewater Treatment,
W77-01990 1004 5D

Pichia Spartinae, A Dominant Yeast of the Spartina Salt Marsh,
W77-02039 1004 5C

Distribution of Aquatic Yeasts - Effect of Incubation Temperature and Chloramphenicol Concentration on Isolation,
W77-02525 1005 5A

Yeasts and Fungi in Marine Environments, (In French),
W77-02904 1006 5B

Purification of Residual Liquor from Yeast Production (Ochistka posledrozhzhevoi brazhki),
W77-03811 1008 5D

Yeasts from Brackish Waters in Lorraine, (In French),
W77-06269 1013 5B

Utilization of Mixed Hydrocarbon Substrate by Petroleum-Degrading Microorganisms,
W77-07749 1016 5C

Wastewater Microbiology,
W77-09893 1020 5D

Determination of the Degree of Accumulation of Residual Liquor Components During Recycling of the Liquor (Opredelenie stepeni nakopleniya komponentov posledrozhzhevoi brazhki pri vozvrate ee v proizvodstvennyi tsikl),
W77-10697 1021 3E

Contribution of the Pulp and Paper Industry to Agriculture (Tsellyulozno-bumazhnaya promyshlennost' -- sel'skomu khozyaistvu),
W77-10702 1021 5E

Formation of Toxic Products from a No. 2 Fuel Oil by Photooxidation,
W77-11291 1022 5B

Effect of Department Discharges on the Chemical Purification of Industrial Effluent. Part 1: Discharge of a Yeast-Producing Plant -- Spent Fermentation Liquor (O vliyanii tsekhovykh stochnykh vod na protsess khimicheskoi ochistki promstokob. Soobshchenie 1. Stok drozhzhevogo proizvodstva -- posledrozhzhevaya brazhka),
W77-12353 1024 5D

New Microbial Indicators of Disinfection Efficiency,
W77-12483 1024 5A

YELLOW-CHEEK
Growth of the Yellowcheek Elopichthys Bambusa (Rich.) in the Amur Basin, (In Russian),
W77-01229 1003 2I

YELLOW FISH
The Seasonal Haematology of the Small-Mouth Yellowfish (Barbus Holubi),
W77-10215 1021 5C

YELLOW ORGANICS
Uptake of Copper by the Polychaete Cirriformia Spirabrancha in the Presence of Dissolved Yellow Organic Matter of Natural Origin,
W77-06263 1013 5C

YELLOW PERCH
Food Selection and Feeding Relationships of Yellow Perch (Perca Flavescens Mitchell), White Bass (Monone Chrysops (Rafinesque)), Freshwater Drum (Aplodinotus Grunniens (Rafinesque)), and Goldfish (Carassius Auratus (Linneaus)), in Western Lake Erie,
W77-02043 1004 5C

Movement of Yellow Perch (Perca Flavescens) and White Sucker (Catostomus Commersoni) in a Nearshore Great Lakes Habitat Subject to a Thermal Discharge,
W77-03027 1006 5C

Effects of Constant and Rising Temperatures on Survival and Development Rates of Embryonic and Larval Yellow Perch, Perca Flavescens (Mitchill),
W77-04550 1009 5C

Influence of Temperature and Wind on the Survival of Early Stages of Yellow Perch, Perca Flavescens,
W77-05650 1012 5C

Dissolved Gas Supersaturation, Grand Coulee Dam Project, 1973.
W77-05787 1012 5A

Temperature Effects on Young Yellow Perch, Perca Flavescens (Mitchill),
W77-09773 1020 5C

Chlorine: Its Toxicity to Fish and Detoxification of Antimycin,
W77-11310 1022 5C

Proportions of a Yellow Perch Population Surfacing After a Rotenone Treatment,
W77-11348 1022 5C

Retention of Mercury in the Muscle of Yellow Perch (Perca Flavescens) and Rock Bass (Ambloplites Rupestris),
W77-12047 1023 5B

YELLOW SPOT DISEASE
Studies on the Yellow Spot Disease in Conchocelis - III. Aquatic Factors Influencing the Development of the Yellow Spot Disease, (In Japanese),
W77-11360 1022 5C

YELLOW-TAIL
Serum Iron Level and Total Iron Binding Capacity in Culture Fish,
W77-11543 1023 5A

YELLOW WATER LILY
Primary Productivity and Mineral Cycling in Aquatic Macrophyte Communities of the Chowan River, North Carolina,
W77-03969 1008 5C

Primary Productivity and Biomass Distribution of Aquatic Macrophytes in the Lower Chowan River,
W77-04326 1009 5C

YELLOWSTONE LAKE (WYO)
Responses to Odors by Fingerling Cutthroat Trout from Yellowstone Lake,
W77-07111 1015 5C

YELLOWSTONE NATIONAL PARK
Fidelity of Thermophilic Blue-Green Algae to Hot Spring Habitats,
W77-03045 1006 5C

Use of a Cold-Water Refuge by Rainbow and Brown Trout in a Geothermally Heated Stream,
W77-12866 1024 5C

YELLOWSTONE RIVER
Issues and Opinions on the Social Effects of Water Allocation for Coal Development in the Yellowstone River Drainage,
W77-04146 1009 6B

YELLOWSTONE RIVER (MONT)
Estimation of Amenity Values as Opportunity Costs for Energy-Related Water Use in Montana,
W77-01811 1004 6B

YELLOWTAILS (DRUG RESISTANCE)
Studies on the Application of Ampicillin for Pseudotuberculosis of Cultured Yellowtails: I. In Vitro Studies on Sensitivity, Development of Drug-Resistance and Reversion of Acquired Drug-Resistance Characteristics, (In Japanese),
W77-10992 1022 5C

YENISEI BASIN (SIBERIA-USSR)
Biological Assessment of the Water Quality of the Small Rivers Sora and Byurya (Yenisei Basin), (In Russian),
W77-07755 1016 5C

YIELD EQUATIONS
Applicability of the Unit Stream Power Equation,
W77-00830 1002 2J

A Bioeconomic Simulation Analysis of Regulating Groundwater Irrigation,
W77-02549 1005 3F

YOLK SAC DISEASE
The Gas-Bubble Disease of Fish, The Causes, Attendant Phenomena and Cure, (Die Gasblasenkrankheit der Fische, Ursachen, Begleiterscheinungen und Abhilfe),
W77-05474 1011 5C

YOLK-SAC FRY
Experiments of Nitrogen Gas Disease with Rainbow Trout Fry, (In Japanese),
W77-05459 1011 5C

Use of a Recompression Chamber to Alleviate Gas-Bubble Disease in Coho Sac-Fry,
W77-06028 1012 8I

Ein Forellen Brutsterben Unter Eigenartigen Begleiterscheinungen (A Mortality of Trout Fry Caused by Unusual Circumstances),
W77-07717 1016 5C

YOSEMITE NATIONAL PARK (CALIF)
Water-Quality Study of a Reach of the Merced River in Yosemite National Park and Vicinity, California--April 1973 Through September 1974,
W77-02309 1005 5A

YOSHIKAWA RIVER (JAPAN)
Studies on the Guppy, Lebistes-Reticulatus Peters in Yoshikawa River, Chiba City, (In Japanese),
W77-11857 1023 5C

YOUNGER DRYAS
Climatic Inferences from Former Glaciers in the South-East Grampian Highlands, Scotland,
W77-02467 1005 2C

YOUNGSAN RIVER ESTUARY (KOREA)
A Study on Standing Crops in Phragmites Communis Communities and Their Environmental Factors, (In Korean),
W77-07335 1015 5C

YUBA RIVER
State Administration Generally (Powers and Duties of the Department of Water Resources).
W77-03704 1008 6E

YUCATAN CURRENT
The Formation of the Yucatan Current Based on Observations of Summer 1971,
W77-00657 1002 2L

YUCATAN PENINSULA (MEXICO)
The Interpretation of Rainfall Patterns in Northern Yucatan Utilizing Meteorological Satellite Imagery,
W77-01280 1003 2B

YUGOSLAVIA
Events in the Djerdap Reservoir Immediately After Impoundment, (In German),
W77-00409 1001 2H

Larval Populations of Chironomidae in the Periphyton of the Yugoslav Part of the Danube Between Biograd and Tekija, (In German),
W77-00413 1001 5C

Changes in the Chironomid Fauna Caused by Damming the Danube, (In German),
W77-00414 1001 5C

State Consideration of the Rivers Zeta and Moraca Based on the Chemical Control, (In Serbo-Croatiau),
W77-02266 1005 5G

Measures for the Protection of the Rivers Zeta and Moraca, (In Serbo-Croatiiau),
W77-02267 1005 5G

Effect of Some Integral Components of Detergents on the Behaviour, Mortality and Damage of Gills of the Larvae of the Species Rhyacophila Fasciata Hag. (Trichoptera), (In Serbo-Croatian),
W77-02893 1006 5C

Simulation of Daily Rainfall Series Using Markov Chain Models,
W77-07660 1016 2A

Mathematical Modeling of Regional Water-Supply Systems in Yugoslavia,
W77-08033 1016 4A

YUGOSLAVIA (DERDAP RESERVOIR)
Changes in the Structure of Phytoplankton During the First Years of Existence of the Derdap Storage Reservoir, (In Serbo-Croatian),
W77-06786 1014 2H

YUGOSLAVIA (PLITVICE LAKES)
The Limnological Investigations of Reicotops and Phenomenon of Current Travertinisation in Plitvicka Jezera (Plitvice Lakes, Yugoslavia), (In Serbo-Croatian),
W77-01540 1003 2H

YUGOSLAVIA (TITOGRAD)
Examination of the Fluoride Concentration in Drinking Water of the Town of Titograd, (In Serbo-Croatian),
W77-04334 1009 5A

YUGOSLOVIA (RIVER PIVA)
Ecosystem of the River Piva and Biological Valorization of its Waters, (In Serbo-Croatian),
W77-03852 1008 5B

YUKON RIVER
Transport Phases of Transition Metals in the Amazon and Yukon Rivers,
W77-10328 1021 2J

YUKON RIVER BASIN (ALAS)
Morphometric Definitions and Classifications of Oxbow Lakes, Yukon River Basin, Alaska,
W77-05962 1012 2H

YUKON RIVER WATERSHED (CANADA)
Rates of Transport of Total Phosphorus and Total Nitrogen in Mackenzie and Yukon River Watersheds, N.W.T. and Y.T., Canada,
W77-09617 1020 5C

YUMA AREA (ARIZ)
Analog Simulation of the Ground-Water System, Yuma, Arizona,
W77-09067 1018 2F

ZAGREB (YUGOSLAVIA)
The Influence of Waste Waters on Algae in the Open Collector of Zagreb at Ivanja Rijeka, (In Croatian),
W77-02268 1005 5C

ZAMBIA
A Year Round Water Balance Model, Its Application and Its Future,
W77-10421 1021 2A

ZAPADNA MORAVA RIVER BASIN (YUGOSLAVIA)
Simulation of Daily Rainfall Series Using Markov Chain Models,
W77-07660 1016 2A

ZAPADNA MORAVA RIVER (YUGOSLAVIA)
A Mathematical Model for Flood Wave Simulation Using Synthetic Rainfall Data for a Vast Watershed,
W77-12095 1023 2E

ZEBRA FISH
Quantitative Nucleic Acid Histochemistry of the Yolk Sac Syncytium of Oviparous Teleosts: Implications for Hypotheses of Yolk Utilization,
W77-05850 1012 5C

ZEBRAFISH
The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

ZEOLITES
Soft Water Can Mean Hard Disposal Problems,
W77-00589 1002 5E

Studies of the Removal of Ammonia Nitrogen by Ion Exchange,
W77-02370 1005 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. I. Initial Observations,
W77-07942 1016 5D

Biological Regeneration of Ammonium-Saturated Clinoptilolite. II. Mechanism of Regeneration and Influence of Salt Concentration,
W77-07943 1016 5D

ZERO DISCHARGE
Some Thoughts on Zero Discharge,
W77-00125 1001 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Formulated Fertilizer Segment of the Fertilizer Manufacturing, Point Source Category,
W77-02419 1005 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Phosphorus Derived Chemicals Segment of the Phosphate Manufacturing Point Source Category,
W77-02431 1005 5G

Municipal Wastewater Recycling: A Strategy for Meeting the Zero Discharge Goal of PL 92-500,
W77-02620 1006 5D

No Bypass, Zero Discharge, Plant Protects Maui Coastline,
W77-06151 1013 5D

ZERO DISCHARGE ALTERNATIVES
Public Choice and Urban Water Quality,
W77-03960 1008 6B

ZERO EFFLUENT
'Zero-Effluent' Throwaway System,
W77-00741 1002 5G

ZETA POTENTIAL
A Study of the Physicochemical Parameters Affecting the Removal of Colloidal Particles from Water by Porous Media,
W77-02086 1005 5D

Aiding of Suspended Solids Removal by Polyelectrolytes (Zastosowanie polielektrolitow do stracania zawiesin w wodach dolowych),
W77-05506 1011 5D

Zeta Potential Measurement,
W77-09908 1020 5A

ZINC
The Determination of Zinc, Cadmium, Lead and Copper in a Single Sea-Water Sample by Differential Pulse Anodic Stripping Voltammetry,
W77-00321 1001 5A

Trace-Metal Levels in the Waters and Sediments of Corio Bay (Australia),
W77-00446 1001 5A

The Effect of Soil Properties on Zinc Adsorption by Soils,
W77-00469 1001 2G

Removal and Recovery of Cyanide and Zinc from Electroplating Wastes by Solvent Extraction,
W77-00747 1002 5D

Brilliant Non-Cyanide Zinc Plating.
W77-00748 1002 5D

Zinc Removal from Viscose Plant Effluent - by Extraction with Alkyl Phosphoric Acid into an Organic Solvent and Re-Extraction Decomposition Therefrom.
W77-00756 1002 5D

Elimination of ZN from Wastewater of Rayon Plants by Precipitation,
W77-00757 1002 5D

Synergism of Inhibiting Actions of Heavy Metals Upon the Fertilization and Development of Sea Urchin Eggs, (In Japanese),
W77-01251 1003 5C

Zinc Speciation and Toxicity to Fishes,
W77-01298 1003 5C

The Determination of Cadmium, Lead, Copper and Zinc in Ground Water, Estuarine Water, Sewage and Sewage Effluent by Anodic Stripping Voltammetry,
W77-01518 1003 5A

Removal of Chromium, Chromate, Molybdate and Zinc,
W77-01717 1004 5G

The Metsep Process for the Separation and Recovery of Zinc, Iron, and Hydrochloric Acid from Spent Pickle Liquors,
W77-01987 1004 5D

Compilation of State Data for Eight Selected Toxic Substances, Vol. IV, Compilations of Summaries and Analyses of State Data,
W77-02205 1005 5G

Fixation of Iron and Zinc Applied as Chelates into a Soil Column During Leaching,
W77-02280 1005 2G

Interactions of Micronutrients in Barley Grown on Zinc-Polluted Soils,
W77-02287 1005 2G

Soybean Yield Responses and Assimilation of ZN and CD from Sewage Sludge-Amended Soil,
W77-02377 1005 5C

Study About the Toxic Action of Zinc on One Summer Old Carp: I. Lethal Concentrations, (In Bulgarian),
W77-02896 1006 5C

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Temperature-Induced Changes in Acute Toxicity of Zinc to Atlantic Salmon (Salmo Salar),
W77-03049 1006 5C

Adsorption Isotherms for the Uptake of Zinc by Clay Minerals in a Fresh-Water Medium,
W77-03656 1008 5B

Seasonal and Short-Term Variations in the Concentration and Supply of Dissolved Zinc to Polluted Aquatic Environments,
W77-03778 1008 5B

Temperature Effects on Lactate-Glycogen Metabolism in Zinc-Intoxicated Rainbow Trout (Salmo Gairdneri),
W77-04037 1008 5C

Trace Metals (As, Cd, Cu, Fe, and Zn) in Arctic COD, Boreogadus Saida and Selected Zooplankton from Strathcona Sound, Northern Baffin Island,
W77-04057 1008 5C

Toxicity of Zinc to the Green Alga Selenastrum Capricornutum as a Function of Phosphorus or Ionic Strength,
W77-04156 1009 5C

Embryopathic Effects of Waterborne and Sediment-Accumulated Cadmium, Mercury and Zinc on Reproduction and Survival of Fish and Amphibian Populations in Kentucky,
W77-05003 1010 5C

Evaluation of Metals in Wastewater Sludge,
W77-05197 1011 5A

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Trace Metal Levels in Eels Grown in Power Station Cooling Water,
W77-05624 1012 5C

Heavy Metal Concentrations in Kidneys of Estuarine Raccoons from Florida,
W77-05871 1012 5B

Back-Calculated Fish Lengths and HG and ZN Levels from Recent and 100-Year-Old Cleithrum Bones from Atlantic Cod (Gadus Morhua),
W77-05879 1012 5A

Seasonal and Developmental Variation in the Lethality of Zinc to Juvenile Atlantic Salmon (Salmo Salar),
W77-05888 1012 5C

Chlorinated Hydrocarbon Residues in the Fish *in Lake Tanganyika*,
W77-05890 1012 5C

Inhibition of Marine Algal Photosynthesis by Heavy Metals,
W77-05910 1012 5C

Copper, Zinc and Cadmium in Coastal Waters *of the N.W. Mediterranean*,
W77-05913 1012 5B

Trace Metals in Southern Californian Mussels,
W77-05914 1012 5A

Effects of Annual and Accumulative Applications of Sewage Sludge on Assimilation of Zinc and Cadmium by Corn (Zea Mays L.),
W77-06181 1013 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-06255 1013 5C

The Distribution of Pb, Zn, Cd, and Cu within the Pulmonate Mollusc Helix Aspersa Muller,
W77-06265 1013 5C

Heavy Metals in Animals from the North East Coast,
W77-06271 1013 5C

Metal Content of Dendrobaena Rubida (Oligochaeta) in a Base Metal Mining Area,
W77-06272 1013 5A

The Effect of Sublethal Concentrations of Zinc on Reproduction in the Zebrafish, Brachydanio Rerio Hamilton-Buchanan,
W77-06285 1013 5C

The Common Mussel Mytilus Edulis as an Indicator of Pollution by Zinc, Cadmium, Lead, and Copper. II. Relationship of Metals in the Mussel to Those Discharged by Industry,
W77-06296 1013 5C

Temperature Selection of Juvenile Atlantic Salmon (Salmo Salar) as Influenced by Various Toxic Substances,
W77-06411 1013 5C

The Accumulation of Cadmium, Copper, Manganese and Zinc by Fuccus Vesiculosus in the Bristol Channel,
W77-06477 1013 5B

Trace Metals in Choromytilus meridionalis,
W77-06485 1013 5C

Distribution of Lead, Zinc, Copper and Manganese in the Marine Gastropods, Thais Lapillus and Littorina Littorea, Around the Coast of Wales,
W77-06493 1013 5B

The Uptake of Lead, Zinc, Cadmium, and Copper by the Pulmonate Mollusc, Helix aspersa Muller, and its Relevance to the Monitoring of Heavy Metal Contamination of the Environment,
W77-06629 1014 5C

The Toxic Effects of Selected Heavy Metals on Unadapted Populations of Vorticella Convallaria Var Similis,
W77-06636 1014 5C

The Dynamics of Metals in the American *Oyster, Crassostrea virginica. II. Environmental* Effects,
W77-07129 1015 5C

Variations in the Lead, Zinc and Calcium Content of Dendrobaena rubida (Oligochaeta) in a Base Metal Mining Area,
W77-07135 1015 5C

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (Aldrichetta Forsteri C. and V.) and Small Mouthed Hardyhead (Atherinasoma *Microstoma Whitley*),
W77-07190 1015 5C

Evaluation of Toxicity to the Early Ontogeny of Fishes of Substances Discharged into a Body of Water,
W77-07191 1015 5C

Heavy Metal Pollution in Trondheimsfjorden, Norway, and the Recorded Effects on the Fauna and Flora,
W77-07194 1015 5C

Environmental Dependence of Manganese and Zinc in the Scales of Atlantic Salmon, Salmo Salar (L) and Brown Trout, Salmo Trutta (L),
W77-07203 1015 5C

Atomic Absorption Measurements of Lead, Cadmium, Copper, Iron, and Zinc in Seston of the Baltic Sea,
W77-07309 1015 5A

Evaluation of Erythrocyte delta amino Levulinic Acid Dehydratase as a Short-Term Indicator in Fish of a Harmful Exposure to Lead,
W77-07837 1016 5C

Reduction of Mercury, Copper, Nickel, Cadmium, and Zinc Levels in Solution by Competitive Adsorption onto Peanut Hulls, and Raw and Aged Bark,
W77-08272 1017 5D

The Behaviour of Dissolved Iron, Manganese and Zinc in the Beaulieu Estuary, S. England,
W77-08701 1018 5B

Effects of a Parasite, Eubothrium salvelini (Cestoda: Pseudophyllidea), on the Resistance of Juvenile Sockeye Salmon, Oncorhynchus nerka, to Zinc,
W77-08791 1018 5C

Adsorption and Vertical Movement of the Zinc and Manganese Ions in Three Types of Soil,
W77-09054 1018 5B

Colormetric Determination of Zinc Via Resorcinol Complex,
W77-09138 1019 5A

Phosphorus-Zinc Interaction in Relation to Absorption Rates of Phosphorus, Zinc, Copper, Manganese, and Iron in Corn,
W77-09656 1020 3F

The Effect of Exchange Reactions Between Fraser River Sediment and Seawater on Dissolved Cu and Zn Concentrations in the Strait of Georgia,
W77-09707 1020 2L

Heavy Metal Concentrations in Water, Sediments, and Fish from Mediterranean Coastal Area, Israel,
W77-09742 1020 5A

Catalytic Deoxygenation of Aqueous Solutions by Hydrazine,
W77-09766 1020 5B

Water Quality: Western Fish Toxicology Station and Western Oregon Rivers,
W77-09777 1020 5A

Interactions Between Zinc and Suspended *Sediments in the Fraser River Estuary, British* Columbia,
W77-09949 1020 5B

Zinc Adsorption Isotherms for Soil Clays With and Without Iron Oxides Removed,
W77-10284 1021 2G

Influences on the Carbon Dioxide Balance of Submersed Higher Aquatic Plants in Flowing Water by Noxious Substances Contained in Water, (In German),
W77-10364 1021 5C

Etude de L'influence du Cadmium Stable sur le Transfert du Zinx-65 en Ecosysteme Irrigue par Submersion (Riziere Irriguee), (Study of the Influence of Stable Cadmium on the Transfer of Zinc-65 in an Ecosystem Irrigated by Submersion (Irrigated Rice Field),
W77-10387 1021 5C

Le Transfert du Zinc-65 de Sediments a des Larves de Chironomides et a un Poisson D'eau Douce et L'effet du Cadmium sur ce Transfert, (Transfer of Zinc-65 from Sediments to Chironomid Larvae and to a Freshwater Fish and the Effect of Cadmium on Transfer),
W77-10393 1021 5C

Preliminary Report on the Quality of Water in Abandoned Zinc Mines in Northeastern Oklahoma and Southeastern Kansas,
W77-10571 1021 5B

Effects of Dredging Operations on Estuarine Benthic Macrofauna,
W77-11242 1022 5C

Effects of Heavy Metals on Survival and Respiration Rate of Tubificid Worms: Part I-Effects on Survival,
W77-11250 1022 5C

Trace Metal Content of Plankton and Zooplankton Collected from the New York Bight and Long Island Sound,
W77-11254 1022 5A

Cadmium and Other Heavy Metals in Sea-Skaters (Gerridae: Halobates, Rheumatobates),
W77-11256 1022 5A

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Heavy Metal Accumulation in the Vicinity of a Desalination Plant,
W77-11278 1022 5B

Contamination of Biological Samples by Ingested Sediment,
W77-11298 1022 5A

Frequency Distributions of Trace Metal Concentrations in Five Freshwater Fishes,
W77-11300 1022 5B

The Effects of Pesticides, Polychlorinated Biphenyls and Metals on the Growth and Reproduction of Acanthamoeba Castellanii,
W77-11306 1022 5C

Copper Granules in the Barnacle Balanus Balanoides,
W77-11335 1022 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

Effects of Environmental Factors on Radiocadmium Uptake by Four Species of Marine Bivalves,
W77-11352 1022 5C

Compounds of Zinc and Copper in Sewage Sludge Determined by Electron Spectroscopy,
W77-11482 1022 5A

Distribution of Cadmium, Zinc and Copper in the Mussel Mytilus Edulis. Existence of Cadmium-Binding Proteins Similar to Metallothioneins,
W77-11519 1023 5C

Cadmium and Zinc Toxicity to Flagfish, Jordanella Floridae,
W77-11526 1023 5C

Uptake of Zinc, Lead, and Cadmium by Young Whiting in the Severn Estuary,
W77-11537 1023 5C

Comparison of Modified Montmorillonite to Salts and Chelates as Carrier for Micronutrients for Plants: I. Supply of Copper, Zinc, and Manganese,
W77-11954 1023 3C

Detection of Trace Contaminant Effects in Aquatic Ecosystems,
W77-12017 1023 5A

Effects of Salinity on the Net Uptake of Zinc by the Common Mussel Mytilus Edulis,
W77-12022 1023 5C

Heavy-Metal Contamination by Atmospheric Fallout of Several Flin Flon Area Lakes and the Relation to Fish Populations,
W77-12027 1023 5B

Effect of pH on Tolerance of Hormidium Rivulare to Zinc and Copper,
W77-12054 1023 5C

The Toxicity of Zinc to the Immune Response of the Zebrafish, Brachydanio rerio, Injected with Viral and Bacterial Antigens,
W77-12073 1023 5C

Sprinkler Application of P and ZN Fertilizers,
W77-12123 1023 3F

Nutrient Uptake by Russet Burbank Potatoes as Influenced by Fertilization,
W77-12128 1023 3F

Trace Metals in Finfish from the New York Bight and Long Island Sound,
W77-12654 1024 5B

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

ZINC-65

Experimental Analysis of the Transfers of a Micropollutant (ZN65) to the Terminal Consumer in a Fresh Water Ecosystem, (In French),
W77-10913 1022 5C

ZINC CHLORIDE

Acute Toxicity of Zinc, Cadmium, and Chromium to the Marine Fishes, Yellow-Eye Mullet (*Aldrichetta Forsteri C. and V.*) and Small Mouthed Hardyhead (Atherinasoma Microstoma Whitley),
W77-07190 1015 5C

ZINC RADIOISOTOPES

Zinc Uptake by Atlantic Salmon (Salmo Salar) Exposed to a Lethal Concentration of Zinc at 3, 11 and 19 C,
W77-03021 1006 5C

Experimental Analysis of the Transfers of a Micropollutant (ZN65) to the Terminal Consumer in a Fresh Water Ecosystem, (In French),
W77-10913 1022 5C

Uptake and Loss of Dissolved Zinc by the Stickleback Gasterosteus aculeatus L.,
W77-11274 1022 5C

Zinc-65 Specific Activities in the Migratory Pacific Hake Merluccius Products,
W77-11336 1022 5B

The Accumulation, Distribution, and Loss of Zinc (65ZN) in the Gastropod Viviparus Ater (Cristofori and Jan),
W77-12851 1024 5B

ZINC TOXICITY

Effect of Zinc-Coated Culverts on Vertebrate and Invertebrate Fauna in Selected Maine Streams,
W77-03170 1007 5C

ZIRCONIUM SALTS

Method of Purification of Waste Water By Treatment with Zirconium Salt,
W77-08255 1017 5D

ZONED EMBANKMENTS

Load Transfer and Hydraulic Fracturing in Zoned Dams,
W77-08857 1018 8B

ZONING

The Cost of Coastal Zoning.
W77-03535 1007 6E

Protection and Control of the Salt Water Shore Area,
W77-04361 1009 6E

Corwine V Crow Wing County (Commercial Campgrounds Detrimental to Small Lakes),
W77-05063 1010 6E

People and the Sound. Flood Damage Reduction.
W77-06598 1013 6B

Local Control of Land Use: Profile of a Problem,
W77-08003 1016 6F

Integrated Evaluation Programs for Fairfax County, Va.,
W77-08862 1018 6B

The Legal Implementation of Coastal Zone Management: The North Carolina Model,
W77-09547 1019 6E

Forest and Water Reserve Zones.
W77-11196 1022 6E

ZOOBENTHOS

Study of the Ural River Benthos, (In Russian),
W77-00091 1001 2I

The Performance of Diversity Index in Describing the Zoo-Benthos of Two Lakes,
W77-11275 1022 5C

ZOOFLAGELLATES

Mutual Effect of Zooflagellates, Algae and Bacteria, (In Russian),
W77-04137 1009 5C

ZOOGLOEA RAMIGERA

Some Factors Affecting Floc Formation by Zoogloea Ramigera, Strain I-16-M,
W77-07042 1014 5D

ZOONOSES
The Effects of Temperature on Diseases and Their Histopathological Manifestations in Fish,
W77-02692 1006 5C

ZOOPLANKTON
Littoral Zooplankton of the Baikal Open Zone, (In Russian),
W77-00333 1001 2H

Possibilities of Determining Community Boundaries Within the Limits of a Lake Ecosystem, (In Russian),
W77-00367 1001 2H

Geographical and Seasonal Variability of Marine Plankton.
W77-00393 1001 5C

Zooplankton of Dikson Bay (Kara Sea),
W77-00395 1001 5C

Species Composition and Distribution of Ecological Complexes of Zooplankton in the Enisei Gulf,
W77-00399 1001 5C

Zooplankton of the Akstafa Reservoir, (In Russian),
W77-00416 1001 2H

Species Diversity of Freshwater Plankton Agglomerations, (In Polish),
W77-00495 1001 7B

Chemical Composition and Food Value of Some Members of Freshwater Zooplankton in Ponds of the Southern Moldavian SSR, (In Russian),
W77-00509 1001 2H

Effects of Slag on Aquatic Life,
W77-00625 1002 5C

Independence of the Biochemical and Species Composition of Plankton of the Mingechaur and Varvara Reservoirs, (In Russian),
W77-01018 1002 2H

Distribution of the Phytophylic Invertebrates and Methods of their Quantitative Estimation, (In Russian),
W77-01040 1002 5C

Effects of Suspended Solids on Selected Estuarine Plankton,
W77-01784 1004 5C

Relationships between Zooplankton Displacement Volume, Wet Weight, Dry Weight, and Carbon,
W77-01790 1004 5A

Initial Zooplankton Investigations,
W77-01848 1004 6G

Zooplankton and Micronekton Studies in the Bering -Chukchi/Beaufort Seas,
W77-01850 1004 6G

Beaufort Sea Plankton Studies,
W77-01863 1004 6G

Changes in Biocenoses of Planktonic Organisms Under Conditions of a Semi-Closed Production Cooling System and a Water Purification System, (In Russian),
W77-01876 1004 5C

Zooplankton of the Region of Nosy-Be: VI. Pteropods, Heteropods: I. Holoneritic and Internal-Neritic Species; Contribution to the Study of a Tropical Eutrophic Bay, (In French),
W77-02416 1005 5C

Physical and Biological Effects of Thermal Discharges at La Cygne Lake, Volume I: Project Report,
W77-02616 1006 5C

The Ecology of an Artificial Cooling Lake,
W77-02723 1006 5C

Macrozoobenthic Species Assemblages of Southeastern Lake Michigan, U.S.A.,
W77-02728 1006 2H

Excretion of Ammonia and Inorganic Phosphorous by Euphausia Pacifica and Metridia Pacifica at Different Concentrations of Phytoplankton,
W77-03036 1006 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-03055 1006 5C

Distribution of Pelagic Zooplankton within a Thermal Gradient in Lake Columbia, a Cooling Lake near Portage, Wisconsin,
W77-03077 1007 5C

Arsenic Concentrations in Some Coexisting Marine Organisms from Newfoundland and Labrador,
W77-04036 1008 5C

Data on Seasonal Variations in Plankton and on the Hydrologic Characteristics of the North Sea, Off Ostende and Nieuwpoort: Period from 1969 to 1971, (In French),
W77-04072 1008 5C

Effect of the Novorossisk Heat Electric Power Station Warm Waters on Zooplankton, (In Russian),
W77-04583 1009 5C

Method of Separating Zooplankton and Phytoplankton in Seston,
W77-04872 1010 5A

Seasonal Distribution and Abundance of Crustacean Zooplankton in Lake Erie, 1970.
W77-05233 1011 5C

Entrainment of Estuarine Zooplankton into a Mid-Atlantic Power Plant: Delayed Effects,
W77-05592 1011 5C

Assessment of Power-Plant Effects on Zooplankton in the Near Field,
W77-05593 1011 5C

The Effects of Heated Water Discharge on Zooplankton in a 4,500 acre Missouri Reservoir,
W77-05604 1012 5C

Distribution of Fish Species in Great Bear Lake, Northwest Territories, with Reference to Zooplankton, Benthic Invertebrates, and Environmental Conditions,
W77-05612 1012 5B

Acute Toxicity of Cadmium and Zinc to Seven Invertebrate Species from Western Port, Victoria,
W77-05614 1012 5C

Food of the Larval Anchoveta Engraulis Ringens J.,
W77-05845 1012 2L

Fate and Effect of Naphthalenes: Controlled Ecosystem Pollution Experiment,
W77-05894 1012 5C

Biological Transport of Copper at Loch Ewe and Saanich Inlet: Controlled Ecosystem Pollution Experiment,
W77-05895 1012 5B

Mercury in Plankton from a Polluted Norwegian Fjord,
W77-05915 1012 5A

Vertical Migrations: Some Data on the Autumnal Behavior of Zooplankton in a Canal, (In French),
W77-05986 1012 5B

Acute and Chronic Toxicity of Copper to Four Species of Daphnia,
W77-06258 1013 5C

A Water-Powered Mechanical Device for Accurately Subsampling Large Numbers of Nektonic Organisms,
W77-06276 1013 5A

Feeding Modes and Prey Size Selection in the Alewife (Alosa Pseudoharengus),
W77-06293 1013 5C

Lake Trummen Restoration Project. III. Zooplankton, Macrobenthos and Fish,
W77-06389 1013 5G

The Optimal Zooplankton Biomass in Fish-Rearing Ponds, (In Russian),
W77-06406 1013 2I

Zooplankton Populations in a Polluted, Tropical Embayment,
W77-06410 1013 5C

Comparative Characteristics of Zooplankton of Lake Glubokoye for 1972-1973 and in 1951, (In Russian),
W77-06455 1013 2H

Transport of Mercury Through a Laboratory Two-Level Marine Food Chain,
W77-06484 1013 5C

Zooplankton Sampling Variability: Controlled Ecosystem Pollution Experiment,
W77-06615 1014 5A

Dynamics of Micro-Zooplankton Populations Treated with Copper: Controlled Ecosystem Pollution Experiment,
W77-06616 1014 5A

Evaluation of Potential Indicators of Sub-Lethal Toxic Stress on Marine Zooplankton (Feeding, Fecundity, Respiration and Excretion): Controlled Ecosystem Pollution Experiment,
W77-06617 1014 5A

Experimental Observations on the Effects of Copper on Copepods and Other Zooplankton: Controlled Ecosystem Pollution Experiment,
W77-06619 1014 5A

Response of Macro-Zooplankton Populations to Copper: Controlled Ecosystem Pollution Experiment,
W77-06620 1014 5A

Limnological and Planktonic Studies in the Waterton Lakes, Alberta,
W77-06680 1014 5C

A Study on the Role of Herbivorous Zooplankton Community as Primary Consumers of Phytoplankton in Dutch Lakes,
W77-06695 1014 5C

Primary and Secondary Production of Plankton in Heated Lakes, (In Polish),
W77-06752 1014 5C

Initial Zooplankton Investigations in Lower Cook Inlet,
W77-06835 1014 6G

Evaluation of Two Methods for Calculating Freshwater Zooplankton Production, (In Russian),
W77-07228 1015 7B

Planktonic Infusoria in Two Lakes of the Gorki Oblast, (In Russian),
W77-07234 1015 5C

Influence of Wetting Tension and Ions upon Settlement and Beginning of Metamorphosis in Bryozoan Larvae (Bowerbankia gracilis),
W77-07306 1015 5C

The Effect of Collector Discharge Water from Rice Fields on the Zooplankton of Some Kuban Estuaries, (In Russian),
W77-07331 1015 5C

Further Transition States of the Baja California Upwelling Ecosystem,
W77-07365 1015 5C

Zooplankton and Micronekton Studies in the Bering - Chukchi/Beaufort Seas,
W77-07412 1015 6G

Effect of Zooplankton Grazing on Photosynthetic Activity and Composition of Phytoplankton,
W77-07453 1015 5C

Preliminary Estimates of Production by a Calanoid Copepod in Subtropical Lake Sibaya,
W77-07500 1015 5C

The Effect of Food Concentration and Temperature on Respiration and Excretion in Herbivorous Zooplankton,
W77-07502 1015 5C

Grazing Effects on Nannoplankton in Gatun Lake, Panama,
W77-07507 1015 5C

Strategies for Existence of Zooplankton Prey in Homogeneous Environments,
W77-07509 1015 5C

Symap Computer Projections of Summer Zooplankton Populations in Van Lake, Montana,
W77-07511 1015 7C

The Influence of Spring Circulation on Zooplankton Dynamics in the Plussee,
W77-07518 1015 5C

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The Role of Zooplankton in the Intrabiocoenotic Phosphorus Cycle and Factors Affecting Phosphorus Excretion in a Lake,
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Effects of Zooplankton Grazing on Nuisance Algal Blooms,
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